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ANALYTICAL REPORT

X07-001

Lot #: F6J060270 SDG #: SL641

Dot Stewart

Pacific Northwest National Lab 3110 Port of Benton Blvd. Sigma 5 MS K694 Richland, WA 99352

SEVERN TRENT LABORATORIES, INC.

Melania Harris Project Manager

November 28, 2006



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CASE NARRATIVE

Pacific Northwest National Laboratories P.O. Box 1970 Richland, Washington 99352 November 28, 2006

Attention: Dot Stewart

SDG

SL641

Number of Samples

14

Sample Matrix

Water

Data Deliverable

Summary

Date SDG Closed

October 20, 2006

II. Introduction

Between October 6, 2006 and October 26, 2006, fourteen (14) water samples were received by STL St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

Deviation from Request:

None

IV. Definitions

QCBLK-

Quality Control Blank, Method Blank

OCLCS-

Quality Control Laboratory Control Sample, Blank Spike

DUP-

Laboratory Duplicate

MS-

Matrix Spike

MSD-

Matrix Spike Duplicate



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Pacific Northwest National Laboratories November 28, 2006 SDG: SL641

V. Comments

General

The following SAFs are associated with this SDG: X07-001.

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Volatiles

The MS/MSD RPD for Acetone is not within method acceptance criteria. MS/MSD recoveries are within QC limits.

Batch:

6296254

Affected Samples:

F6J180204 (1): B1KKR2

Methylene chloride was observed in the method blank above the reporting limit. Methylene chloride is a recognized potential laboratory contaminants. Concentrations up to five times the level observed in the method blank, in associated laboratory samples, may be attributed to its presence in the laboratory. Methylene Chloride was not detected in the associated samples.

The closing CCV recovery was outside the upper QC limit (greater than 15% RSD) for Acetone indicating a potential high bias for this analyte in the samples associated with this CCV. Acetone was not detected above the reporting limit in the associated samples.

The LCS/LCSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable LCS/LCSD recoveries.

The MS/MSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable MS/MSD recoveries.

Batch:

6305232

Affected Samples:

F6J260237 (1): B1KKR8

F6J260237 (3): B1KKT1

F6J260237 (4): B1KKV0

Leaders in Environmental Testing



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Pacific Northwest National Laboratories November 28, 2006 SDG: SL641

The LCS/LCSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable LCS/LCSD recoveries.

There is one surrogate recovery in the LCS and three surrogate recoveries in the LCSD which exceeded the QC limits. However the spike compound recoveries in the LCS and LCSD are acceptable (see above).

Batch:

6284175

Affected Samples:

F6J060270 (1): B1KKW1

F6J060270 (2): B1KKW6

Ion Chromatography

Poor matrix spike recovery for Chloride in batch 6282167, Sulfate in batch 6282169, Nitrite in batch 6282170, and Nitrate in batch 6282171 is attributed to matrix interference.

Affected Samples:

F6J060270 (1): B1KKW1 F6J060270 (2): B1KKW6

F6J060270 (3): B1KKV8

F6J060270 (4): B1KKV9

F6J060270 (5): B1KKT2

F6J060270 (6): B1KKT8

F6J060270 (7): B1KKW0

The sample duplicate %RPD for Chloride in batch 6296386 is outside the established QC limits. A matrix interference is physically evident in the sample. Method performance is demonstrated by acceptable LCS recovery.

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Fluoride in batch 6296387 and Sulfate in batch 6296388 is attributed to matrix interference.

Affected Samples:

F6J180204 (1): B1KKR2

F6J180204 (2): B1KKV2

F6J180204 (3): B1KKT0

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Sulfate in batch 6300290, Nitrite in batch 6300291, and Nitrate in batch 6300292, and Nitrite in batch 6300323 is attributed to matrix interference.

Affected Samples:

F6J260237 (1): B1KKR8 F6J260237 (2): B1KKR9 F6J260237 (3): B1KKT1 F6J260237 (4): B1KKV0



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Pacific Northwest National Laboratories November 28, 2006 SDG: SL641

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Melania Harris

St. Louis Project Manager

METHODS SUMMARY

SL641

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD	
Chloride	MCAWW 300.0A	MCAWW 300.0A	
Fluoride	MCAWW 300.0A	MCAWW 300.0A	
Nitrate as NO3	MCAWW 300.0A		
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A	
Sulfate	MCAWW 300.0A	MCAWW 300.0A	
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826	

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes",
	EPA-600/4-79-020, March 1983 and subsequent revisions.
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical
	Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SL641 : F6J060270

<u>wo #</u>	SAMPLE#	CLIENT	·-		SAMP TIME
JFWJ0	001	B1KKW1	1	.0/05/06	12:15
JFWJ5	002	B1KKW6	1	0/05/06	13:00
JFWJ8	003	B1KKV8	1	0/04/06	13:00
JFWJ9	004	B1KKV9	1	0/04/06	13:50
JFWKA	005	B1KKT2	1	0/04/06	10:30
JFWKG	006	B1KKT8	1	10/04/06	11:30
JFWKJ	007	B1KKW0	1	0/04/06	14:30
MORE (a)				

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

SL641 : F6J180204

				SAMPLED	SAMP
WO #	SAMPLE#	CLIENT	SAMPLE ID	DATE	TIME
JGN27	001	B1KKR2		10/16/06	
JGN28	002	B1KKV2		10/16/06	
JGN29	003	B1KKT0		10/16/06	13:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
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(Continued on next page)

SAMPLE SUMMARY

SL641 : F6J260237

<u>WO # </u>	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
JHA55 JHA6T JHA61 JHA7E	001 002 003 004	B1KKR8 B1KKR9 B1KKT1 B1KKV0		10/24/06 10/24/06 10/23/06 10/24/06	13:00 13:45
NOTE (S)):				

- The analytical results of the samples listed above are presented on the following pages.

- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

VOLATILES

Client Sample ID: B1KKW1

GC/MS Volatiles

Lot-Sample #...: F6J060270-001 Work Order #...: JFWJ01AC Matrix.....: WATER

 Date Sampled...:
 10/05/06
 Date Received...
 10/06/06

 Prep Date.....:
 10/10/06
 Analysis Date...
 10/10/06

Prep Batch #...: 6284175

Dilution Factor: 1 Method....: SW846 8260B

		REPORTIN	IG	
PARAMETER	RESULT	LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	0.16 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	0.84 J	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	${\tt ug/L}$	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20
	PERCENT	RECOVERY	Z.	
SURROGATE	RECOVERY	LIMITS		
Toluene-d8	96	(66 - 13	31)	
Dibromofluoromethane	108	(69 - 13	35)	
1,2-Dichloroethane-d4	116	(69 - 13	32)	
4-Bromofluorobenzene	110	(66 - 11	L9)	
NOTE(S):				

J Estimated result. Result is less than RL.

B1KKW1

GC/MS Volatiles

Lot-Sample #: F6J060270-001 Work Order #: JFWJ01AC Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

ESTIMATED RETENTION

CAS # RESULT TIME UNITS PARAMETER

ug/L None

Client Sample ID: B1KKW6

GC/MS Volatiles

Lot-Sample #...: F6J060270-002 Work Order #...: JFWJ51AC Matrix.....: WATER

 Date Sampled...:
 10/05/06
 Date Received...:
 10/06/06

 Prep Date.....:
 10/10/06
 Analysis Date...:
 10/10/06

Prep Batch #...: 6284175

Dilution Factor: 1 Method.....: SW846 8260B

		REPORTIN		
PARAMETER	RESULT	LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	${ m ug/L}$	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20
	PERCENT	RECOVERY	7	
SURROGATE	RECOVERY	LIMITS	•	
Toluene-d8	93	(66 - 13	31)	
Dibromofluoromethane	110	(69 - 13		
1,2-Dichloroethane-d4	118	(69 - 13		
4-Bromofluorobenzene	110	(66 - 13		
4 - DI OMOLITUOI ODELLA ELLE	110	(00 11	/	

B1KKW6

GC/MS Volatiles

Lot-Sample #: F6J060270-002 Work Order #: JFWJ51AC Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

ESTIMATED RETENTION

CAS # RESULT TIME UNITS PARAMETER ug/L None

Client Sample ID: B1KKR2

GC/MS Volatiles

Lot-Sample #...: F6J180204-001 Work Order #...: JGN271AC Matrix..... WATER

Prep Batch #...: 6296254

Dilution Factor: 1 Method....: SW846 8260B

PARAMETER				
	RESULT	LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.74 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	0.45 J	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20
	PERCENT	RECOVERY	ď	
SURROGATE	RECOVERY	LIMITS		
Toluene-d8	93	(66 - 13	31)	
Dibromofluoromethane	112	(69 - 13	35)	
1,2-Dichloroethane-d4	113	(69 - 13	32)	
4-Bromofluorobenzene	98	(66 - 13	19)	

NOTE(S):

J Estimated result. Result is less than RL.

B1KKR2

GC/MS Volatiles

Lot-Sample #: F6J180204-001	Work Order #: JGN271AC	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED	COMPOUNDS
PARAMETER None	CAS # ESTIMATED RESULT	RETENTION TIME UNITS ug/L

Client Sample ID: B1KKR8

GC/MS Volatiles

Tot-Sample # • F6J260237-	01 Work Orde	r #: JHA551AC	Matrix:	WATER
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Date Sampled...: 10/24/06 Date Received..: 10/26/06 Prep Date....: 10/31/06 Analysis Date..: 10/31/06

Prep Batch #...: 6305232

Dilution Factor: 1 Method....: SW846 8260B

		REPORTING			
PARAMETER	RESULT	LIMIT	UNITS	MDL	
1,1-Dichloroethene	ND	1.0	ug/L	0.21	
1,4-Dioxane	ND	80	ug/L	12	
Ethylbenzene	ND	1.0	ug/L	0.22	
Vinyl chloride	ND	2.0	ug/L	0.23	
Acetone	ND N	2.0	ug/L	0.80	
Methylene chloride	ND	1.0	ug/L	0.10	
Carbon disulfide	ND	1.0	ug/L	0.16	
1,1-Dichloroethane	ND	1.0	ug/L	0.16	
2-Butanone	ND	5.0	ug/L	0.56	
Chloroform	0.57 J	1.0	ug/L	0.19	
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19	
Propionitrile	ND	5.0	ug/L	1.7	
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16	
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15	
Carbon tetrachloride	ND	1.0	ug/L	0.15	
1,2-Dichloroethane	ND	1.0	ug/L	0.21	
Benzene	ND	1.0	ug/L	0.17	
Trichloroethene	0.53 J	1.0	ug/L	0.20	
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53	
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23	
Tetrachloroethene	ND	1.0	${ t ug/L}$	0.19	
Tetrahydrofuran	ND	10	${\tt ug/L}$	2.9	
Xylenes (total)	ND	3.0	ug/L	0.58	
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20	
1-Butanol	ND	40	ug/L	2.6	
Toluene	ND	1.0	ug/L	0.20	
	PERCENT	RECOVER	Y		
SURROGATE	RECOVERY	LIMITS			
Toluene-d8	105	(66 - 13	31)		
Dibromofluoromethane	102	(69 - 13	35)		
1,2-Dichloroethane-d4	113	(69 - 13	32)		
4-Bromofluorobenzene	99	(66 - 1	19)		

NOTE(S):

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

B1KKR8

GC/MS Volatiles

Lot-Sample #: F6J260237-001 Work	Order #: JH	A551AC	Matrix:	WATER
MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVEL	Y IDENTIFIED	COMPOUNDS	
PARAMETER None	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS ug/L

Client Sample ID: B1KKT1

GC/MS Volatiles

Lot-Sample #: F6J260237-003	Work Order	#: JHA611AC	Matrix:	WATER
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Date Sampled...: 10/23/06 Date Received..: 10/26/06 Prep Date....: 10/31/06 Analysis Date..: 10/31/06

Prep Batch #...: 6305232

Dilution Factor: 1 Method.....: SW846 8260B

		REPORTIN	IG	
PARAMETER	RESULT	LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.57 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20
	PERCENT	RECOVER.	Y	
SURROGATE	RECOVERY	LIMITS		
Toluene-d8	106	(66 - 1	31)	
Dibromofluoromethane	105	(69 - 1	35)	
1,2-Dichloroethane-d4	109	(69 - 1	32)	
4-Bromofluorobenzene	98	(66 - 1	19)	

NOTE(S):

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

B1KKT1

GC/MS Volatiles

Lot-Sample #: F6J260237-003 Work Order #: JHA611AC Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER CAS # ESTIMATED RETENTION UNITS

None ug/L

Client Sample ID: B1KKV0

GC/MS Volatiles

Lot-Sample #: F6J260237-004 Work (Order #: JHA7E1AC	Matrix:	WATER
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 Date Sampled...: 10/24/06
 Date Received..: 10/26/06

 Prep Date.....: 10/31/06
 Analysis Date..: 10/31/06

Prep Batch #...: 6305232

Dilution Factor: 1 Method....: SW846 8260B

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.34 Ј	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Toluene-d8	106	(66 - 13	31)	
Dibromofluoromethane	107	(69 - 13	35)	
1,2-Dichloroethane-d4	112	(69 - 13	32)	
4-Bromofluorobenzene	100	(66 - 13	L9)	

NOTE(S):

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

B1KKV0

GC/MS Volatiles

Lot-Sample #: F6J260237-004 Wor	k Order #: JH	A7E1AC	Matrix:	WATER
MASS SPECTROMETER/DATA SYSTEM (MSI	S) TENTATIVEL	Y IDENTIFIED	COMPOUNDS	
PARAMETER None	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JF5RW1AA Matrix.....: WATER

MB Lot-Sample #: F6J110000-175

Prep Date....: 10/10/06

Analysis Date..: 10/10/06 Prep Batch #...: 6284175

Dilution Factor: 1

		REPORTING	Ţ.	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	0.65 J	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
	DEDGENIM	RECOVERY		
GIDDOGA EE	PERCENT RECOVERY	LIMITS		
SURROGATE		(66 - 13	1)	
Toluene-d8	92	(69 - 13		
Dibromofluoromethane	110	(69 - 13		
1,2-Dichloroethane-d4	121			
4-Bromofluorobenzene	109	(66 - 11	<i>フ</i> /	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6J110000-175 B	Work Order #: JF5RW1AA	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED	COMPOUNDS
PARAMETER	the part of the same of the sa	RETENTION TIME UNITS

None

ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JG3AG1AA Matrix.....: WATER

MB Lot-Sample #: F6J230000-254

Prep Date....: 10/20/06

Analysis Date..: 10/20/06 Prep Batch #...: 6296254

Dilution Factor: 1

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	METHOD
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	0.65 J	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Toluene-d8	107	(66 - 131		
Dibromofluoromethane	111	(69 - 135		
1,2-Dichloroethane-d4	115	(69 - 132	•	
4-Bromofluorobenzene	103	(66 - 119)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6J230000-254 B Work Order #: JG3AG1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

ESTIMATED RETENTION CAS # RESULT TIME UNITS PARAMETER

ug/L None

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHTJV1AA Matrix...... WATER

MB Lot-Sample #: F6K010000-232

Prep Date....: 10/31/06

Analysis Date..: 10/31/06 Prep Batch #...: 6305232

Dilution Factor: 1

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	1.1	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Toluene-d8	105	(66 - 133		
Dibromofluoromethane	105	(69 - 135		
1,2-Dichloroethane-d4	110	(69 - 132		
4-Bromofluorobenzene	98	(66 - 119	9)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6K010000-232 B Work Order #: JHTJV1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

ESTIMATED RETENTION CAS # RESULT TIME UNITS PARAMETER

ug/L None

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JF5RW1AC-LCS Matrix..... WATER

LCS Lot-Sample#: F6J110000-175 JF5RW1AD-LCSD

Prep Date....: 10/10/06 Analysis Date..: 10/10/06

Prep Batch #...: 6284175

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT		
PARAMETER	AMOUNT	THUOMA	UNITS	RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	10.0	ug/L	100		SW846 8260B
	10.0	11.5	ug/L	115	14	SW846 8260B
Ethylbenzene	10.0	10.1	ug/L	101		SW846 8260B
-	10.0	11.7	ug/L	117	14	SW846 8260B
1,4-Dioxane	200	268	ug/L	134		SW846 8260B
	200	246	ug/L	123	8.8	SW846 8260B
Vinyl chloride	10.0	9.45	ug/L	95		SW846 8260B
_	10.0	10.7	ug/L	107	13	SW846 8260B
Acetone	10.0	13.5	ug/L	135		SW846 8260B
	10.0	11.0	ug/L	110	20	SW846 8260B
Methylene chloride	10.0	11.2	ug/L	112		SW846 8260B
-	10.0	11.4	ug/L	114	1.3	SW846 8260B
Carbon disulfide	10.0	10.8	ug/L	108		SW846 8260B
	10.0	12.2	ug/L	122	12	SW846 8260B
1,1-Dichloroethane	10.0	9.79	ug/L	98		SW846 8260B
-	10.0	10.8	ug/L	108	9.6	SW846 8260B
2-Butanone	10.0	12.0	ug/L	120		SW846 8260B
	10.0	10.4	ug/L	104	15	SW846 8260B
Chloroform	10.0	10.7	ug/L	107		SW846 8260B
	10.0	11.3	ug/L	113	6.0	SW846 8260B
cis-1,2-Dichloroethene	10.0	11.0	ug/L	110		SW846 8260B
-	10.0	12.0 a	ug/L	120	7.8	SW846 8260B
Propionitrile	50.0	63.1	ug/L	126		SW846 8260B
_	50.0	57.2	ug/L	114	9.8	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	11.1	ug/L	111	7.9	SW846 8260B
1,1,1-Trichloroethane	10.0	10.4	ug/L	104		SW846 8260B
	10.0	11.8 a	ug/L	118	13	SW846 8260B
Carbon tetrachloride	10.0	10.2	ug/L	102		SW846 8260B
	10.0	11.8	ug/L	118	14	SW846 8260B
1,2-Dichloroethane	10.0	12.2	ug/L	122		SW846 8260B
	10.0	11.7	ug/L	117	4.8	SW846 8260B
Benzene	10.0	9.94	ug/L	99		SW846 8260B
	10.0	11.0	ug/L	110	9.7	SW846 8260B
Trichloroethene	10.0	9.60	ug/L	96		SW846 8260B
	10.0	10.6	ug/L	106	9.8	SW846 8260B
4-Methyl-2-pentanone	10.0	11.1	ug/L	111		SW846 8260B
	10.0	10.6	ug/L	106	4.3	SW846 8260B
1,1,2-Trichloroethane	10.0	11.4	ug/L	114		SW846 8260B
-	10.0	11.1	ug/L	111	2.6	SW846 8260B

(Continued on next page)

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JF5RW1AC-LCS Matrix..... WATER

LCS Lot-Sample#: F6J110000-175 JF5RW1AD-LCSD

	SPIKE	MEASURED		PERCENT		
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
Tetrachloroethene	10.0	8.09	ug/L	81		SW846 8260B
	10.0	9.50	ug/L	95	16	SW846 8260B
Tetrahydrofuran	50.0	66.9 a	ug/L	134		SW846 8260B
_	50.0	56.6	ug/L	113	17	SW846 8260B
1,4-Dichlorobenzene	10.0	9.81	ug/L	98		SW846 8260B
	10.0	10.5	ug/L	105	6.6	SW846 8260B
1-Butanol	100	131	ug/L	131		SW846 8260B
	100	121	ug/L	121	7.7	SW846 8260B
Toluene	10.0	9.80	ug/L	98		SW846 8260B
	10.0	11.1	ug/L	111	12	SW846 8260B
			PERCENT	RECOVERY		
SURROGATE			RECOVERY	LIMITS		
Toluene-d8			105	(85 - 117)	
			119 *	(85 - 117)	
Dibromofluoromethane			118	(82 - 121	.)	
			120	(82 - 121	.)	
1,2-Dichloroethane-d4			135 *	(74 - 126)	
			130 *	(74 - 126)	
4-Bromofluorobenzene			114	(76 - 117	')	
			124 *	(76 - 117	')	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

^{*} Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JG3AG1AC-LCS Matrix..... WATER

LCS Lot-Sample#: F6J230000-254 JG3AG1AD-LCSD

Prep Date....: 10/20/06 Analysis Date..: 10/20/06

Prep Batch #...: 6296254

Dilution Factor: 1

	SPIKE	MEASURED	1	PERCENT		
PARAMETER	AMOUNT	TRUOMA	UNITS	RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	9.35	ug/L	94		SW846 8260B
·	10.0	9.48	ug/L	95	1.3	SW846 8260B
Ethylbenzene	10.0	9.37	ug/L	94		SW846 8260B
•	10.0	9.54	ug/L	95	1.8	SW846 8260B
1,4-Dioxane	200	164	ug/L	82		SW846 8260B
	200	186	ug/L	93	13	SW846 8260B
Vinyl chloride	10.0	8.07	ug/L	81		SW846 8260B
-	10.0	8.11	ug/L	81	0.49	SW846 8260B
Acetone	10.0	8.54	ug/L	85		SW846 8260B
	10.0	8.64	ug/L	86	1.1	SW846 8260B
Methylene chloride	10.0	10.5	ug/L	105		SW846 8260B
-	10.0	10.2	ug/L	102	2.4	SW846 8260B
Carbon disulfide	10.0	12.1	ug/L	121		SW846 8260B
	10.0	12.4	ug/L	124	2.8	SW846 8260B
1,1-Dichloroethane	10.0	10.1	ug/L	101		SW846 8260B
•	10.0	10.2	ug/L	102	0.29	SW846 8260B
2-Butanone	10.0	9.02	ug/L	90		SW846 8260B
	10.0	9.89	ug/L	99	9.2	SW846 8260B
Chloroform	10.0	9.67	ug/L	97		SW846 8260B
	10.0	9.85	ug/L	99	1.8	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.78	ug/L	98		SW846 8260B
•	10.0	10.1	ug/L	101	3.1	SW846 8260B
Propionitrile	50.0	50.0	ug/L	100		SW846 8260B
-	50.0	50.4	ug/L	101	0.85	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.77	ug/L	98		SW846 8260B
	10.0	10.1	ug/L	101	2.9	SW846 8260B
1,1,1-Trichloroethane	10.0	9.44	ug/L	94		SW846 8260B
	10.0	9.70	ug/L	97	2.6	SW846 8260B
Carbon tetrachloride	10.0	9.36	ug/L	94		SW846 8260B
	10.0	9.79	ug/L	98	4.5	SW846 8260B
1,2-Dichloroethane	10.0	10.3	ug/L	103		SW846 8260B
•	10.0	10.4	ug/L	104	1.0	SW846 8260B
Benzene	10.0	9.51	ug/L	95		SW846 8260B
	10.0	9.72	ug/L	97	2.1	SW846 8260B
Trichloroethene	10.0	9.56	ug/L	96		SW846 8260B
	10.0	9.36	ug/L	94	2.2	SW846 8260B
4-Methyl-2-pentanone	10.0	11.1	ug/L	111		SW846 8260B
* *	10.0	10.1	ug/L	101	9.8	SW846 8260B
1,1,2-Trichloroethane	10.0	9.87	ug/L	99		SW846 8260B
	10.0	9.80	ug/L	98	0.70	SW846 8260B

(Continued on next page)

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JG3AG1AC-LCS Matrix..... WATER

LCS Lot-Sample#: F6J230000-254 JG3AG1AD-LCSD

SPIKE	MEASURED		PERCENT			
AMOUNT	TRUOMA	UNITS	RECOVERY	RPD	METHOD	
10.0	8.55	ug/L	86		SW846 826	50B
10.0	8.84	ug/L	88	3.3	SW846 826	50B
50.0	48.3	ug/L	97		SW846 826	50B
50.0	49.7	ug/L	99	2.8	SW846 826	50B
10.0	8.75	ug/L	87		SW846 826	50B
10.0	8.90	ug/L	89	1.7	SW846 826	50B
100	87.4	ug/L	87		SW846 826	50B
100	99.8	ug/L	100	13	SW846 82	50B
10.0	9.42	ug/L	94		SW846 820	50B
10.0	9.68	ug/L	97	2.8	SW846 82	60B
		PERCENT	RECOVERY			
		RECOVERY	LIMITS			
		100	(85 - 117)		
		105	(85 - 117)		
		107	(82 - 121)		
		108	(82 - 121)		
		107	(74 - 126)		
		111	(74 - 126)		
		93	(76 - 117)		
		98	(76 - 117)		
	AMOUNT 10.0 10.0 50.0 50.0 10.0 10.0 100 100	AMOUNT 10.0 8.55 10.0 8.84 50.0 48.3 50.0 49.7 10.0 8.75 10.0 8.90 100 87.4 100 99.8 10.0 9.42	AMOUNT AMOUNT UNITS 10.0 8.55 ug/L 10.0 8.84 ug/L 50.0 48.3 ug/L 50.0 49.7 ug/L 10.0 8.75 ug/L 10.0 8.90 ug/L 10.0 99.8 ug/L 10.0 99.8 ug/L 10.0 9.68 ug/L PERCENT RECOVERY 100 105 107 108 107 111 93	AMOUNT AMOUNT UNITS RECOVERY 10.0 8.55 ug/L 86 10.0 8.84 ug/L 97 50.0 49.7 ug/L 99 10.0 8.75 ug/L 87 10.0 8.90 ug/L 87 10.0 99.8 ug/L 87 100 99.8 ug/L 100 10.0 9.42 ug/L 94 10.0 9.68 ug/L 97 PERCENT RECOVERY LIMITS 100 (85 - 117 105 (85 - 117 107 (82 - 121 108 (82 - 121 107 (74 - 126 111 (74 - 126 93 (76 - 117	AMOUNT AMOUNT UNITS RECOVERY RPD 10.0 8.55 ug/L 86 10.0 8.84 ug/L 88 3.3 50.0 48.3 ug/L 97 50.0 49.7 ug/L 99 2.8 10.0 8.75 ug/L 87 10.0 8.90 ug/L 87 100 87.4 ug/L 87 100 99.8 ug/L 100 13 10.0 9.42 ug/L 94 10.0 9.68 ug/L 97 PERCENT RECOVERY RECOVERY RECOVERY RECOVERY LIMITS 100 (85 - 117) 105 (85 - 117) 107 (82 - 121) 108 (82 - 121) 107 (74 - 126) 111 (74 - 126) 93 (76 - 117)	AMOUNT AMOUNT UNITS RECOVERY RPD METHOD

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHTJV1AC-LCS Matrix..... WATER

LCS Lot-Sample#: F6K010000-232 JHTJV1AD-LCSD

Prep Date....: 10/31/06 **Analysis Date..:** 10/31/06

Prep Batch #...: 6305232

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT		
PARAMETER	AMOUNT	TRUOMA	UNITS	RECOVERY	RPD	METHOD
Ethylbenzene	10.0	10.1	ug/L	101		SW846 8260B
*	10.0	9.86	ug/L	99	2.6	SW846 8260B
1,1-Dichloroethene	10.0	10.6	ug/L	106		SW846 8260B
•	10.0	10.5	ug/L	105	1.3	SW846 8260B
1,4-Dioxane	200	180	ug/L	90		SW846 8260B
	200	173	ug/L	86	4.2	SW846 8260B
Vinyl chloride	10.0	9.36	ug/L	94		SW846 8260B
-	10.0	8.85	ug/L	88	5.6	SW846 8260B
Acetone	10.0	19.2 a	ug/L	192		SW846 8260B
	10.0	18.1 a	ug/L	181	5.7	SW846 8260B
Methylene chloride	10.0	11.2	ug/L	112		SW846 8260B
	10.0	10.8	ug/L	108	3.7	SW846 8260B
Carbon disulfide	10.0	13.3	ug/L	133		SW846 8260B
	10.0	13.0	ug/L	130	2.8	SW846 8260B
1,1-Dichloroethane	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.5	ug/L	105	3.0	SW846 8260B
2-Butanone	10.0	8.96	ug/L	90		SW846 8260B
	10.0	9.59	ug/L	96	6.8	SW846 8260B
Chloroform	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.1	ug/L	101	3.7	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.97	ug/L	100		SW846 8260B
	10.0	10.1	ug/L	101	0.85	SW846 8260B
Propionitrile	50.0	50.6	ug/L	101		SW846 8260B
	50.0	52.0	ug/L	104	2.8	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.4	ug/L	104	3.8	SW846 8260B
1,1,1-Trichloroethane	10.0	10.5	ug/L	105		SW846 8260B
	10.0	9.99	ug/L	100	5.3	SW846 8260B
Carbon tetrachloride	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.2	ug/L	102	1.6	SW846 8260B
1,2-Dichloroethane	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.2	ug/L	102	2.8	SW846 8260B
Benzene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	9.88	ug/L	99	3.7	SW846 8260B
Trichloroethene	10.0	9.91	ug/L	99		SW846 8260B
	10.0	9.78	ug/L	98	1.3	SW846 8260B
4-Methyl-2-pentanone	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.3	ug/L	103	4.7	SW846 8260B
1,1,2-Trichloroethane	10.0	9.97	ug/L	100		SW846 8260B
	10.0	9.73	ug/L	97	2.5	SW846 8260B

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GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHTJV1AC-LCS Matrix..... WATER

LCS Lot-Sample#: F6K010000-232 JHTJV1AD-LCSD

	SPIKE	MEASURED		PERCENT		
PARAMETER	TRUOMA	TRUOMA	UNITS	RECOVERY	<u>RPD</u>	METHOD
Tetrachloroethene	10.0	9.44	ug/L	94		SW846 8260B
	10.0	9.08	ug/L	91	3.8	SW846 8260B
Tetrahydrofuran	50.0	47.9	ug/L	96		SW846 8260B
-	50.0	49.3	ug/L	99	2.9	SW846 8260B
1,4-Dichlorobenzene	10.0	9.25	ug/L	92		SW846 8260B
•	10.0	9.05	ug/L	91	2.2	SW846 8260B
1-Butanol	100	80.6	ug/L	81		SW846 8260B
	100	88.7	ug/L	89	9.5	SW846 8260B
Toluene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.81	ug/L	98	3.1	SW846 8260B
			PERCENT	RECOVERY		
SURROGATE			RECOVERY	LIMITS		
Toluene-d8			106	(85 - 117	')	
			104	(85 - 117	')	
Dibromofluoromethane			109	(82 - 121	.)	
			106	(82 - 121	.)	
1,2-Dichloroethane-d4			107	(74 - 126	;)	
			103	(74 - 126	5)	
4-Bromofluorobenzene			100	(76 - 117	')	
			97	(76 - 117	')	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JFQ4P1AD-MS Matrix..... WATER

MS Lot-Sample #: F6J050268-001 JFQ4P1AE-MSD

 Date Sampled...:
 10/03/06
 Date Received...:
 10/04/06

 Prep Date.....:
 10/10/06
 Analysis Date...:
 10/10/06

Prep Batch #...: 6284175

Dilution Factor: 1

	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	TRUOMA	AMT	TRUOMA	UNITS	RECVRY	<u>RPD</u>	METHOD
1,1-Dichloroethene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	10.5	ug/L	105	4.5	SW846 8260B
Ethylbenzene	ND	10.0	8.26	ug/L	83		SW846 8260B
	ND	10.0	8.41	ug/L	84	1.8	SW846 8260B
1,4-Dioxane	ND	200	199	ug/L	100		SW846 8260B
	ND	200	228	ug/L	114	14	SW846 8260B
Vinyl chloride	ND	10.0	9.30	ug/L	93		SW846 8260B
	ND	10.0	9.79	ug/L	98	5.2	SW846 8260B
Acetone	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	11.4	ug/L	114	13	SW846 8260B
Methylene chloride	2.2	10.0	12.8	ug/L	106		SW846 8260B
	2.2	10.0	12.7	ug/L	106	0.23	SW846 8260B
Carbon disulfide	ND	10.0	11.1	ug/L	111		SW846 8260B
	ND	10.0	11.4	ug/L	114	2.5	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.92	ug/L	99	0.78	SW846 8260B
2-Butanone	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.60	ug/L	96	5.2	SW846 8260B
Chloroform	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.47	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	11.1	ug/L	111		SW846 8260B
	ND	10.0	11.0	ug/L	110	0.54	SW846 8260B
Propionitrile	ND	50.0	50.1	ug/L	100		SW846 8260B
	ND	50.0	47.7	ug/L	95	4.8	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.4	ug/L	104	0.0	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.7	ug/L	107	0.37	SW846 8260B
Carbon tetrachloride	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.6	ug/L	106	3.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.47	SW846 8260B
Benzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.1	SW846 8260B
Trichloroethene	ND	10.0	9.76	ug/L	98		SW846 8260B
	ND	10.0	9.92	ug/L	99	1.6	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	6.44	ug/L	64		SW846 8260B
	ND	10.0	6.53	ug/L	65	1.3	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	7.93	ug/L	79		SW846 8260B
	ND	10.0	7.96	ug/L	80	0.42	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JFQ4P1AD-MS Matrix...... WATER

MS Lot-Sample #: F6J050268-001 JFQ4P1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOI)
Tetrachloroethene	ND	10.0	6.76	ug/L	68		SW846	
	ND	10.0	6.85	ug/L	68	1.3		
Tetrahydrofuran	ND	50.0	48.7	ug/L	97		SW846	
	ND	50.0	52.1	ug/L	104	6.6	SW846	
1,4-Dichlorobenzene	ND	10.0	7.22	ug/L	72		SW846	8260B
	ND	10.0	7.30	ug/L	73	0.97	SW846	
1-Butanol	ND	100	47.3	ug/L	47		SW846	8260B
	ND	100	54.7	ug/L	55	14	SW846	8260B
Toluene	ND	10.0	7.85	ug/L	79		SW846	8260B
	ND	10.0	8.02	ug/L	80	2.1	SW846	8260B
			ERCENT		RECOVERY			
SURROGATE	_		ECOVERY		LIMITS			
Toluene-d8		87	7		(66 - 131	•		
		88	3		(66 - 131			
Dibromofluoromethane		10	06		(69 - 135)		
		10	9		(69 - 135)		
1,2-Dichloroethane-d4		11	13		(69 - 132)		
		11	12		(69 - 132)		
4-Bromofluorobenzene		10	07		(66 - 119)		
		10	04		(66 - 119)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JGN271AJ-MS Matrix.....: WATER

MS Lot-Sample #: F6J180204-001 JGN271AK-MSD

 Date Sampled...:
 10/16/06
 Date Received...:
 10/18/06

 Prep Date.....:
 10/20/06
 Analysis Date...:
 10/20/06

Prep Batch #...: 6296254

Dilution Factor: 1

	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	TRUOMA	AMT	TUUOMA	UNITS	RECVRY	RPD	METHOD
1,4-Dioxane	ND	200	150	ug/L	75		SW846 8260B
	ND	200	168	ug/L	84	11	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.58	ug/L	96		SW846 8260B
	ND	10.0	9.71	ug/L	97	1.4	SW846 8260B
Ethylbenzene	ND	10.0	9.59	ug/L	96		SW846 8260B
	ND	10.0	9.32	ug/L	93	2.8	SW846 8260B
Vinyl chloride	ND	10.0	8.09	ug/L	81		SW846 8260B
	ND	10.0	8.06	ug/L	81	0.42	SW846 8260B
Acetone	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	8.29	ug/L	83 p	24	SW846 8260B
Methylene chloride	ND	10.0	9.03	ug/L	90		SW846 8260B
	ND	10.0	9.29	ug/L	93	2.9	SW846 8260B
Carbon disulfide	ND	10.0	12.3	ug/L	123		SW846 8260B
	ND	10.0	12.1	ug/L	121	1.6	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.96	ug/L	100		SW846 8260B
	ND	10.0	10.1	ug/L	101	1.6	SW846 8260B
2-Butanone	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	7.55	ug/L	76	11	SW846 8260B
Chloroform	0.74	10.0	10.3	ug/L	95		SW846 8260B
	0.74	10.0	10.2	ug/L	94	0.88	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.74	ug/L	97	0.78	SW846 8260B
Propionitrile	ND	50.0	45.4	ug/L	91		SW846 8260B
	ND	50.0	50.7	ug/L	101	11	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	9.45	ug/L	94	2.6	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.64	ug/L	96		SW846 8260B
	ND	10.0	9.36	ug/L	94	2.8	SW846 8260B
Carbon tetrachloride	ND	10.0	9.60	ug/L	96		SW846 8260B
	ND	10.0	9.42	ug/L	94	1.9	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.29	SW846 8260B
Benzene	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.47	ug/L	95	2.6	SW846 8260B
Trichloroethene	0.45	10.0	9.75	ug/L	93		SW846 8260B
	0.45	10.0	9.64	ug/L	92	1.2	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	9.77	ug/L	98		SW846 8260B
	ND	10.0	10.4	ug/L	104	6.1	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	9.60	ug/L	96	0.90	SW846 8260B

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GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JGN271AJ-MS Matrix.....: WATER

MS Lot-Sample #: F6J180204-001 JGN271AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOI)
Tetrachloroethene	ND	10.0	8.86	ug/L	89		SW846	8260B
	ND	10.0	8.41	ug/L	84	5.2	SW846	8260B
Tetrahydrofuran	ND	50.0	48.7	ug/L	97		SW846	8260B
	ND	50.0	48.1	ug/L	96	1.3	SW846	8260B
1,4-Dichlorobenzene	ND	10.0	8.88	ug/L	89		SW846	8260B
	ND	10.0	8.63	ug/L	86	2.9	SW846	8260B
1-Butanol	ND	100	61.4	ug/L	61		SW846	8260B
	ND	100	68.7	ug/L	69	11	SW846	8260B
Toluene	ND	10.0	9.72	ug/L	97		SW846	8260B
	ND	10.0	9.53	ug/L	95	2.0	SW846	8260B
		P	ERCENT		RECOVERY			
SURROGATE		R	ECOVERY		LIMITS			
Toluene-d8	•	1	.04		(66 - 131)		
		1	.02		(66 - 131)		
Dibromofluoromethane		1	.03		(69 - 135)		
		1	.02		(69 - 135)		
1,2-Dichloroethane-d4		1	.04		(69 - 132)		
·		1	.09		(69 - 132)		
4-Bromofluorobenzene		9	16		(66 - 119)		
		9	13		(66 - 119)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHFQD1AJ-MS Matrix.....: WATER

MS Lot-Sample #: F6J270361-002 JHFQD1AK-MSD

 Date Sampled...:
 10/24/06
 Date Received...:
 10/25/06

 Prep Date.....:
 10/31/06
 Analysis Date...:
 10/31/06

Prep Batch #...: 6305232

Dilution Factor: 1

	SAMPLE	SPIKE	MEASRD		PERCNT			
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD	
1,1-Dichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B	
	ND	10.0	10.5	ug/L	105	0.38	SW846 8260B	
Ethylbenzene	ND	10.0	9.74	ug/L	97		SW846 8260B	
-	ND	10.0	10.0	ug/L	100	2.9	SW846 8260B	
1,4-Dioxane	ND	200	170	ug/L	85		SW846 8260B	
	ND	200	201	ug/L	100	16	SW846 8260B	
Vinyl chloride	ND	10.0	9.56	ug/L	96		SW846 8260B	
	ND	10.0	10.0	ug/L	100	4.9	SW846 8260B	
Acetone	ND	10.0	18.7	ug/L	187		SW846 8260B	
	Qua	lifiers:	a,N					
	ND	10.0	19.6	ug/L	196	5.1	SW846 8260B	
	Qua	lifiers:						
Methylene chloride	ND	10.0	11.0	ug/L	110		SW846 8260B	
	ND	10.0	11.3	ug/L	113	2.6	SW846 8260B	
Carbon disulfide	ND	10.0	13.7	ug/L	137		SW846 8260B	
	ND	10.0	13.8	ug/L	138	0.72	SW846 8260B	
1,1-Dichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B	
	ND	10.0	10.8	ug/L	108	1.8	SW846 8260B	
2-Butanone	ND	10.0	10.8	ug/L	108		SW846 8260B	
	ND	10.0	10.8	ug/L	108	0.09	SW846 8260B	
Chloroform	8.2	10.0	18.6	ug/L	104		SW846 8260B	
	8.2	10.0	18.7	ug/L	105	0.64	SW846 8260B	
cis-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B	
	ND	10.0	10.2	ug/L	102	1.6	SW846 8260B	
Propionitrile	ND	50.0	53.0	ug/L	106		SW846 8260B	
	ND	50.0	54.6	ug/L	109	2.9	SW846 8260B	
trans-1,2-Dichloroethene	ND	10.0	10.6	ug/L	106		SW846 8260B	
	ND	10.0	10.5	ug/L	105	1.2	SW846 8260B	
1,1,1-Trichloroethane	ND	10.0	11.0	ug/L	110		SW846 8260B	
	ND	10.0	11.1	ug/L	111	0.63	SW846 8260B	
1,2-Dichloroethane	ND	10.0	10.4	ug/L	104		SW846 8260B	
	ND	10.0	10.3	ug/L	103	0.77	SW846 8260B	
Benzene	ND	10.0	10.4	ug/L	104		SW846 8260B	
	ND	10.0	10.2	ug/L	102	1.4	SW846 8260B	
Trichloroethene	11	10.0	21.4	ug/L	99		SW846 8260B	
	11	10.0	21.0	ug/L	95	1.9	SW846 8260B	
4-Methyl-2-pentanone	ND	10.0	10.2	ug/L	102		SW846 8260B	
	ND	10.0	10.5	ug/L	105	3.2	SW846 8260B	
1,1,2-Trichloroethane	ND	10.0	9.93	ug/L	99		SW846 8260B	
	ND	10.0	10.2	ug/L	102	2.6	SW846 8260B	

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GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHFQD1AJ-MS Matrix..... WATER

MS Lot-Sample #: F6J270361-002

JHFQD1AK-MSD

Tetrachloroethene 0.36 10.0 9.28 ug/L 89 SW846 8260B 0.36 10.0 9.51 ug/L 91 2.4 SW846 8260B Tetrahydrofuran ND 50.0 47.3 ug/L 95 SW846 8260B	
0.00 2.000 2.000	
Totrobydrofyron ND 50.0 47.3 ug/t. 95 SW846.8260B	
ND 50.0 47.3 ug/L 95 0.04 SW846 8260B	
1,4-Dichlorobenzene ND 10.0 8.80 ug/L 88 SW846 8260B	
ND 10.0 9.17 ug/L 92 4.1 SW846 8260B	
1-Butanol ND 100 69.8 ug/L 70 SW846 8260B	
ND 100 78.1 ug/L 78 11 SW846 8260B	
Toluene ND 10.0 9.73 ug/L 97 SW846 8260B	
ND 10.0 10.0 ug/L 100 3.2 SW846 8260B	
PERCENT RECOVERY	
SURROGATE RECOVERY LIMITS	
Toluene-d8 102 (66 - 131)	
105 (66 - 131)	
Dibromofluoromethane 101 (69 - 135)	
100 (69 - 135)	
1,2-Dichloroethane-d4 102 (69 - 132)	
99 (69 - 132)	
4-Bromofluorobenzene 94 (66 - 119)	
97 (66 - 119)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

N Spike sample recovery is outside control limits.

WET CHEMISTRY

Client Sample ID: B1KKW1

General Chemistry

Lot-Sample #...: F6J060270-001
Date Sampled...: 10/05/06

Work Order #...: JFWJ0

Date Received..: 10/06/06

Matrix..... WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	16.8 C,DN	2.0	mg/L	MCAWW 300.0A	10/06/06	6282167
	Dil	ution Fact	or: 10	MDL: 0.23		
Fluoride	0.17	0.10	mg/L	MCAWW 300.0A	10/06/06	6282168
	Dil	ution Fact	or: 1	MDL 0.020		
Nitrate	4.5 DN	0.20	mg/L	MCAWW 300.0A	10/06/06	6282171
	Dil	ution Fact	or: 10	MDL 0.040		
Nitrite	0.31 N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
	Dil	ution Fact	or: 1	MDL: 0.0040)	
Sulfate	40.7 DN	5.0	mg/L	MCAWW 300.0A	10/06/06	6282169
	Dil	ution Fact	or: 10	MDL 0.50		
MOME (O)						

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKW6

General Chemistry

Lot-Sample #...: F6J060270-002 Work Order #...: JFWJ5 Matrix..... WATER

Date Sampled...: 10/05/06 Date Received..: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	18.3 C,DN	2.0 ution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/06/06	6282167
Fluoride	0.21	0.10 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282168
Nitrate	6.1 DN Dil	0.20 ution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/06/06	6282171
Nitrite	ND N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/06/06	6282170
Sulfate	44.5 DN	4.0 ution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/06/06	6282169

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKV8

General Chemistry

Lot-Sample #...: F6J060270-003 Work Order #...: JFWJ8 Matrix.....: WATER

Date Sampled...: 10/04/06 Date Received..: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	•	0.20 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282167
Fluoride	0.15	0.10 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282168
Nitrate	1.3 DN	0.20 ution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/06/06	6282171
Nitrite	ND N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/06/06	6282170
Sulfate	14.9 N	0.50 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282169

RL Reporting Limit
C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Client Sample ID: B1KKV9

General Chemistry

Lot-Sample #...: F6J060270-004 Work Order #...: JFWJ9 Matrix..... WATER

Date Sampled...: 10/04/06 Date Received..: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	4.0 C,N	0.20	mg/L	MCAWW 300.0A MDL	10/06/06	6282167
Fluoride	0.18	0.10 ution Fact	mg/L	MCAWW 300.0A MDL	10/06/06	6282168
Nitrate	1.9 DN	0.20	mg/L	MCAWW 300.0A	10/06/06	6282171
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
Sulfate	17.8 N	0.50 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282169

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Client Sample ID: B1KKT2

General Chemistry

Lot-Sample #...: F6J060270-005 Work Order #...: JFWKA Matrix....: WATER

Date Sampled...: 10/04/06 Date Received..: 10/06/06

RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
9.1 C,DN	2.0 ution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/06/06	6282167
0.16	0.10 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282168
2.9 DN	0.20 ution Fact	mg/L or: 10	MCAWW 300.0A	10/06/06	6282171
0.16 N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/06/06	6282170
23.8 DN	5.0 ution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/06/06	6282169
	9.1 C,DN Dil 0.16 Dil 2.9 DN Dil 0.16 N Dil 23.8 DN	9.1 C,DN 2.0 Dilution Fact 0.16 0.10 Dilution Fact 2.9 DN 0.20 Dilution Fact 0.16 N 0.020 Dilution Fact 23.8 DN 5.0	9.1 C,DN 2.0 mg/L Dilution Factor: 10 0.16 0.10 mg/L Dilution Factor: 1 2.9 DN 0.20 mg/L Dilution Factor: 10 0.16 N 0.020 mg/L Dilution Factor: 1	9.1 C,DN 2.0 mg/L Dilution Factor: 10 MCAWW 300.0A MDL	RESULT RL UNITS METHOD ANALYSIS DATE 9.1 C,DN 2.0 mg/L Dilution Factor: 10 MCAWW 300.0A MDL

NOTE(S): RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKT8

General Chemistry

Lot-Sample #...: F6J060270-006 Work Order #...: JFWKG Matrix..... WATER

Date Sampled...: 10/04/06 Date Received..: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.3 C,N	0.20 ution Factor	mg/ L r: 1	MCAWW 300.0A MDL	10/06/06	6282167
Fluoride		0.10	mg/L r: 1	MCAWW 300.0A MDL	10/06/06	6282168
Nitrate		0.020 ution Factor	mg/ L r: 1	MCAWW 300.0A	10/06/06	6282171
Nitrite	ND N	0.020 ution Factor	mg/L r: 1	MCAWW 300.0A MDL 0.0040	10/06/06	6282170
Sulfate	12.9 N	0.50 ution Factor	mg/L r: 1	MCAWW 300.0A MDL	10/06/06	6282169

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

Client Sample ID: B1KKW0

General Chemistry

Lot-Sample #...: F6J060270-007 Work

Work Order #...: JFWKJ

Matrix..... WATER

Date Sampled...: 10/04/06

Date Received..: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	2.4 C,N	0.20 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282167
Fluoride		0.10 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282168
Nitrate	0.76 N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/06/06	6282171
Nitrite	ND N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/06/06	6282170
Sulfate	12.7 N	0.50 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/06/06	6282169

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKR2

General Chemistry

Lot-Sample #...: F6J180204-001 Work

Work Order #...: JGN27

Matrix..... WATER

Date Sampled...: 10/16/06 Date Received..: 10/18/06

					PREPARATION-	PREP
PARAMETER	RESULT	RL	UNITS	METHOD	ANALYSIS DATE	BATCH #
Chloride	11.8 C,D	2.0	mg/L	MCAWW 300.0A	10/20/06	6296386
	Dil	ution Fact	or: 10	MDL 0.23		
Fluoride	0.18 N	0.10	mg/L	MCAWW 300.0A	10/20/06	6296387
	Dil	ution Fact	or: 1	MDL 0.020		
Nitrate	2.2 D	0.20	mg/L	MCAWW 300.0A	10/20/06	6296390
	Dil	ution Fact	or: 10	MDL 0.040		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	10/20/06	6296389
	Dil	ution Fact	cor: 1	MDL 0.004)	
Sulfate	31.4 DN	5.0	mg/L	MCAWW 300.0A	10/20/06	6296388
	Dil	ution Fact	cor: 10	MDL: 0.50		

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Client Sample ID: B1KKV2

General Chemistry

Lot-Sample #...: F6J180204-002 Work Order #...: JGN28 Matrix..... WATER

Date Sampled...: 10/16/06 Date Received..: 10/18/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	•	2.0 ution Facto	mg/L or: 10	MCAWW 300.0A MDL	10/20/06	6296386
Fluoride	0.13 N	0.10	mg/L or: 1	MCAWW 300.0A	10/20/06	6296387
Nitrate	4.7 D	0.20 ution Facto	mg/L or: 10	MCAWW 300.0A MDL: 0.040	10/20/06	6296390
Nitrite	0.32	0.020 ution Facto	mg/L or: 1	MCAWW 300.0A	10/20/06	6296389
Sulfate	52.9 DN	5.0 ution Facto	mg/L or: 10	MCAWW 300.0A MDL: 0.50	10/20/06	6296388

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Client Sample ID: B1KKT0

General Chemistry

Matrix....: WATER

Lot-Sample #...: F6J180204-003 Work Order #...: JGN29

Date Sampled...: 10/16/06 Date Received..: 10/18/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	0.95 C	0.20 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/20/06	6296386
Fluoride	0.061 B,N	0.10 ution Fact	mg/L or: 1	MCAWW 300.0A	10/20/06	6296387
Nitrate	0.10	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/20/06	6296390
Nitrite	ND Dil	0.020 ution Fact	mg/L .or: 1	MCAWW 300.0A	10/20/06	6296389
Sulfate	9.3 N	0.50 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/20/06	6296388

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKR8

General Chemistry

Lot-Sample #...: F6J260237-001

Work Order #...: JHA55

Matrix..... WATER

Date Sampled...: 10/24/06 Date Received..: 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.0	0.20	mg/L	MCAWW 300.0A	10/26/06	6300288
	Di	lution Fact	or: 1	MDL: 0.023		
Fluoride	0.14	0.10	mg/L	MCAWW 300.0A	10/26/06	6300289
	Di	lution Fact	cor: 1	MDL 0.020		
Nitrate	0.82 N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300292
	Di	lution Fact	tor: 1	MDL 0.004)	
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300291
	Di	lution Fact	tor: 1	MDL 0.004)	
Sulfate	19.6 DN	5.0	mg/L	MCAWW 300.0A	10/27/06	6300290
	Di	lution Fact	cor: 10	MDL: 0.50		

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Client Sample ID: B1KKR9

General Chemistry

Lot-Sample #...: F6J260237-002

Work Order #...: JHA6T

Matrix....: WATER

Date Sampled...: 10/24/06 Date Received..: 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.9	0.20 ution Fact	mg/L or: 1	MCAWW 300.0A MDL	10/26/06	6300288
Fluoride	0.22	0.10	mg/L or: 1	MCAWW 300.0A	10/26/06	6300289
Nitrate	1.6 DN	0.20	mg/L or: 10	MCAWW 300.0A	10/26/06	6300292
Nitrite	ND N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/26/06	6300291
Sulfate	22.0 DN	5.0 Lution Fact	mg/L or: 10	MCAWW 300.0A MDL	10/26/06	6300290

RL Reporting Limit

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKT1

General Chemistry

Lot-Sample #...: F6J260237-003 Work Order #...: JHA61 Matrix..... WATER

Date Sampled...: 10/23/06 Date Received..: 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	12.4 D	4.0 ution Fact	mg/L or: 20	MCAWW 300.0A MDL 0.46	10/26-10/27/06	6300288
Fluoride	0.25	0.10 ution Fact	mg/L or: 1	MCAWW 300.0A	10/26/06	6300289
Nitrate	9.8 DN	0.40 ution Fact	mg/L or: 20	MCAWW 300.0A MDL	10/26-10/27/06	6300292
Nitrite	ND N	0.020 ution Fact	mg/L or: 1	MCAWW 300.0A	10/26/06	6300291
Sulfate	51.2 DN	10.0 ution Fact	mg/L or: 20	MCAWW 300.0A MDL 1.0	10/26-10/27/06	6300290

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Client Sample ID: B1KKV0

General Chemistry

Lot-Sample #...: F6J260237-004 Work Order #...: JHA7E Matrix..... WATER

Date Sampled...: 10/24/06 Date Received..: 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	0.77	0.20 Lution Fact	mg/L	MCAWW 300.0A	10/26/06	6300288
Fluoride	0.079 B	0.10 lution Fact	mg/L	MCAWW 300.0A	10/26/06	6300289
Nitrate	0.17 N	0.020 lution Fact	mg/L	MCAWW 300.0A	10/26/06	6300292
Nitrite	ND N	0.020 lution Fact	mg/L cor: 1	MCAWW 300.0A	10/26/06	6300291
Sulfate	9.3 DN	0.50 lution Fact	mg/L	MCAWW 300.0A MDL	10/26/06	6300290

RL Reporting Limit

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

METHOD BLANK REPORT

General Chemistry

Matrix....: WATER

Client Lot #...: SL641

		REPORTING		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT UNITS		ANALYSIS DATE	BATCH #
Chloride	0.054 B	Work Order #: JF1N51AA 0.20 mg/L Dilution Factor: 1	MB Lot-Sample #: MCAWW 300.0A	F6J090000-167 10/06/06	6282167
Chloride	0.050 B	Work Order #: JG3VE1AA 0.20 mg/L Dilution Factor: 1		F6J230000-386 10/20/06	6296386
Chloride	ND	Work Order #: JHM8X1AA 0.20 mg/L Dilution Factor: 1		F6J270000-288 10/26/06	6300288
Fluoride	ND	Work Order #: JF1N71AA 0.10 mg/L Dilution Factor: 1	MB Lot-Sample #: MCAWW 300.0A	F6J090000-168 10/06/06	6282168
Fluoride	ND	Work Order #: JG3VG1AA 0.10 mg/L Dilution Factor: 1	MB Lot-Sample #: MCAWW 300.0A	F6J230000-387 10/20/06	6296387
Fluoride	ND	Work Order #: JHM881AA 0.10 mg/L Dilution Factor: 1			6300289
Nitrate	ND	Work Order #: JG3VN1AA 0.020 mg/L Dilution Factor: 1	MB Lot-Sample #: MCAWW 300.0A		6296390
Nitrate	ND	Work Order #: JHM9L1AE 0.020 mg/L Dilution Factor: 1	_		6300292
Nitrite	ND	Work Order #: JF1PC1AF 0.020 mg/L Dilution Factor: 1		F6J090000-170 10/06/06	6282170
Nitrite	ND	Work Order #: JG3VJ1AF 0.020 mg/L Dilution Factor: 1	MB Lot-Sample #: MCAWW 300.0A	F6J230000-389 10/20/06	6296389
Nitrite	ND	Work Order #: JHM9F1AF 0.020 mg/L Dilution Factor: 1	MB Lot-Sample #: MCAWW 300.0A	F6J270000-291 10/26/06	6300291

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL641 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT UNITS METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrate	ND	Work Order #: JF1PE1AA MB Lot-Sample # 0.020 mg/L MCAWW 300.0A Dilution Factor: 1		6282171
Nitrate	ND	Work Order #: JHM9L1AA MB Lot-Sample # 0.020 mg/L MCAWW 300.0A Dilution Factor: 1		6300292
Sulfate	ND	Work Order #: JF1N91AA MB Lot-Sample : 0.50 mg/L MCAWW 300.0A Dilution Factor: 1		6282169
Sulfate	ND	Work Order #: JG3VH1AA MB Lot-Sample # 0.50 mg/L MCAWW 300.0A Dilution Factor: 1		6296388
Sulfate	ND	Work Order #: JHM9D1AA MB Lot-Sample # 0.50 mg/L MCAWW 300.0A Dilution Factor: 1		6300290
Sulfate	ND	Work Order #: JHM9D1AE MB Lot-Sample # 0.50 mg/L MCAWW 300.0A Dilution Factor: 1		6300290
NOTE(S):				

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL641 Matrix....: WATER

	SPIKE	MEASURED		PERCNT				PREPARATION-	PREP
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY	RPD	метног)	ANALYSIS DATE	BATCH #
Chloride	22100111							mple#: F6J09000	
	1.00	0.921	mg/L	92			300.0A	10/06/06	6282167
	1.00	0.979	mg/L	98	6.1		300.0A	10/06/06	6282167
	2.00		ilution Fact		·			_ 0, 00, 00	
Chloride		WO#	:JG3VE1AC	-LCS/JG	3VE1A	D-LCSD	LCS Lot-Sa	mple#: F6J23000	0-386
	1.00	0.962	mg/L	96		MCAWW	300.0A	10/20/06	6296386
	1.00	0.982	mg/L	98	2.0	MCAWW	300.0A	10/20/06	6296386
		D	ilution Fact	cor: 1					
Chloride		WO#	:JHM8X1AC	-LCS/JHI	M8X1A	D-LCSD	LCS Lot-Sa	ample#: F6J27000	0-288
	1.00	0.949	mg/L	95		MCAWW	300.0A	10/26/06	6300288
	1.00	0.917	mg/L	92	3.5	MCAWW	300.0A	10/26/06	6300288
		D:	ilution Fact	cor: 1					
Fluoride		WO#	:JF1N71AC	-LCS/JF	1N71A	D-LCSD	LCS Lot-Sa	umple#: F6J09000	0-168
	0.500	0.458	mg/L	92		MCAWW	300.0A	10/06/06	6282168
	0.500	0.465	mg/L	93	1.6	MCAWW	300.0A	10/06/06	6282168
		D	ilution Fact	tor: 1					
Fluoride		WO#	:JG3VG1AC	-LCS/JG	3VG1A	D-LCSD	LCS Lot-Sa	ample#: F6J23000	0-387
	0.500	0.470	mg/L	94			300.0A	10/20/06	6296387
	0.500	0.479	mg/L	96	1.9	MCAWW	300.0A	10/20/06	6296387
		D	ilution Fact	cor: 1				•	
Fluoride		₩○₩	TUMQ Q 1 A C	_ T.CG /.TH	MRR1Z	D_T.CSD	ICS Int-Sa	ample#: F6J27000	N-289
FIGOLIGE	0.500	0.469	mg/L	94	.100 111.		300.0A	10/26/06	6300289
	0.500	0.486	mg/L	97	3 5		300.0A	10/26/06	6300289
	0.500		ilution Fact		3.3	1-10211111	300.011	10/20/00	0300203
		D.	rideion rac	.01. 1					
Nitrate		WO#	:JG3VN1AC	-LCS/JG	3VN1A	D-LCSD	LCS Lot-Sa	ample#: F6J23000	0-390
	0.200	0.195	mg/L	98		MCAWW	300.0A	10/20/06	6296390
	0.200	0.195	mg/L	97	0.28	MCAWW	300.0A	10/20/06	6296390
		D	ilution Fact	cor: 1					
Nitrate		WO#	:JHM9I,1AF	-LCS/JH	M9L1A	G-LCSD	LCS Lot-Sa	ample#: F6J27000	0-292
1,10100	0.200	0.192	mg/L	96			300.0A	10/26/06	6300292
	0.200	0.191	mg/L	96	0.52		300.0A	10/26/06	6300292
	0.200		ilution Fact		J.JL			20/20/00	0000202
		D.	LLUCION PAC						

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL641 Matrix....: WATER

	SPIKE	MEASURED		PERCNT				PREPARATION-	PREP
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY				ANALYSIS DATE	
Nitrite		WO#:		-LCS/JF	LPC1A			mple#: F6J09000	
	0.0800	0.0724	mg/L	90			300.0A	10/06/06	6282170
	0.0800	0.0725	mg/L	91	0.12	MCAWW	300.0A	10/06/06	6282170
		Di	lution Fact	or: 1					
Nitrite		WO# :			3VJ1A			mple#: F6J23000	
	0.0800	0.0781	mg/L	98			300.0A	10/20/06	6296389
	0.0800	0.0758	mg/L	95	3.0	MCAWW	300.0A	10/20/06	6296389
		Di	lution Fact	or: 1					
Nitrite					19F1A			mple#: F6J27000	
	0.0800	0.0810	mg/L	101			300.0A	10/26/06	6300291
	0.0800	0.0821	mg/L	103	1.4	MCAWW	300.0A	10/26/06	6300291
		Di	llution Fact	or: 1					
Nitrate		WO# :		-LCS/JF	LPE1A			mple#: F6J09000	0-171
	0.200	0.189	mg/L	95			300.0A	10/06/06	6282171
	0.200	0.193	mg/L	96	2.0	MCAWW	300.0A	10/06/06	6282171
		Di	llution Fact	or: 1					
Nitrate		WO# :	:JHM9L1AC	-LCS/JH	19L1A	D-LCSD	LCS Lot-Sa	umple#: F6J27000	0-292
1,10100	0.200	0.186	mg/L	93			300.0A	10/26/06	6300292
	0.200	0.191	mg/L	96	2.5		300.0A	10/26/06	6300292
			llution Fact	or: 1				·	
Sulfate		WO# :	:JF1N91AC	-LCS/JF:	LN91A	D-LCSD	LCS Lot-Sa	umple#: F6J09000	0-169
	4.00	3.74	mg/L	94		MCAWW	300.0A	10/06/06	6282169
	4.00	3.80	mg/L	95	1.5	MCAWW	300.0A	10/06/06	6282169
		Di	ilution Fact	or: 1					
Sulfate		WO# :	:JG3VH1AC	-LCS/JG	3VH1A	D-LCSD	LCS Lot-Sa	ample#: F6J23000	0-388
	4.00	3.80	mg/L	95		MCAWW	300.0A	10/20/06	6296388
	4.00	3.74	mg/L	94	1.6	MCAWW	300.0A	10/20/06	6296388
		Di	llution Fact	or: 1					
Sulfate		WO#	:JHM9D1AC	-LCS/JHI	M9D1A	D-LCSD	LCS Lot-Sa	ample#: F6J27000	0-290
	4.00	3.73	mg/L	93		MCAWW	300.0A	10/26/06	6300290
	4.00	3.69	mg/L	92	1.1	MCAWW	300.0A	10/26/06	6300290
		Di	ilution Fac	or: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL641

Matrix..... WATER

	SPIKE	MEASURED		PERCNT				PREPARATION-	PREP
PARAMETER	TRUOMA	AMOUNT	UNITS	RECVRY	RPD	METHOI)	ANALYSIS DATE	BATCH #
Sulfate		WO#	:JHM9D1AF	-LCS/JHI	M9D1A	G-LCSD	LCS Lot-Sa	mple#: F6J27000	0-290
	4.00	3.73	mg/L	93		MCAWW	300.0A	10/26/06	6300290
	4.00	3.71	mg/L	93	0.61	MCAWW	300.0A	10/26/06	6300290
		D	ilution Fact	or: 1					

NOTE(S):

General Chemistry

Client Lot #...: SL641
Date Sampled...: 10/16/06
Date Received..: 10/18/06

Matrix.....: WATER

-100 Sampred:: 10/16/06			Date Receive	WILLIE			
PARAMETER Chloride	SAMPLE AMOUNT	E SPIKE	MEASURED AMOUNT UNITS Work Order # .	PERCENT RECOVERY	METHOD	PREPARATION-	PREP
	2.1	2.00	Work Order #: 4.53 N mg/L Dilution Factor: 1	123	MS Lot-S MCAWW 300.0A	ample #: F6J060 10/06/06	0280-002 6282167
Chloride	0.95	2.00	Work Order #: 2.88 mg/L Dilution Factor: 1	20	MS Lot-S MCAWW 300.0A	ample #: F6J180 10/20/06	0204-003 6296386
Chloride	3.0	2.00	Work Order #: 5.20 mg/L Dilution Factor: 1	JHA551AJ 108	MS Lot-S	ample #: F6J260 10/26/06	0237-001 6300288
Fluoride		2.00	Work Order #: 2.76 mg/L Dilution Factor: 1	T T O	MS Lot-Sa MCAWW 300.0A	ample #: F6J060 10/06/06	0280-002 6282168
Fluoride		2.00	Work Order #: 1.83 N mg/L Dilution Factor: 1	JGN291AK 89	MS Lot-Sa MCAWW 300.0A	ample #: F6J180 10/20/06	204-003 6296387
Fluoride	0.14	2.00	Work Order #: 2.16 mg/L Dilution Factor: 1	TOT	MS Lot-Sa MCAWW 300.0A	ample #: F6J260 10/26/06	237-001 6300289
Nitrate	0.10	0.400	Work Order #: 0.482 mg/L Dilution Factor: 1	24	MS Lot-Sa MCAWW 300.0A	ample #: F6J180 10/20/06	204-003 6296390
Nitrate	0.82	0.400	Work Order #: 1.28 N mg/L Dilution Factor: 1	JHA551AN 114	MS Lot-Sa MCAWW 300.0A	imple #: F6J260 10/26/06	237-001 6300292
Nitrite	ND	0.100	Work Order #: 0.147 N mg/L Dilution Factor: 1	T.4 /	MS Lot-Sa	mple #: F6J060: 10/06/06	280-002 6282170
litrite	ND	0.100	Work Order #: 0.104 mg/L Dilution Factor: 1	JGN291AP 104	MS Lot-Sa MCAWW 300.0A	mple #: F6J180: 10/20/06	204-003 6296389
Jitrite	ND	0.100	Work Order #: 0.0576 N mg/L Dilution Factor: 1		MS Lot-Sa MCAWW 300.0A	mple #: F6J2602 10/26/06	237-001 6300291

(Continued on next page)

General Chemistry

Client Lot #...: SL641 Matrix....: WATER Date Sampled...: 10/16/06 Date Received..: 10/18/06 SAMPLE SPIKE MEASURED PERCENT PREPARATION-PARAMETER AMOUNT AMT PREP TRUOMA UNITS RECOVERY METHOD ANALYSIS DATE BATCH # Nitrate Work Order #...: JFWMP1AR MS Lot-Sample #: F6J060280-002 0.50 0.400 0.978 N mg/L 119 MCAWW 300.0A 10/06/06 6282171 Dilution Factor: 1 Sulfate Work Order #...: JFWMP1AM MS Lot-Sample #: F6J060280-002 12.5 4.00 17.2 N mg/L 117 MCAWW 300.0A 10/06/06 6282169 Dilution Factor: 1 Sulfate Work Order #...: JGN291AM MS Lot-Sample #: F6J180204-003 9.3 4.00 12.7 N mg/L 85 MCAWW 300.0A 10/20/06 6296388 Dilution Factor: 1 Sulfate Work Order #...: JHA551AL MS Lot-Sample #: F6J260237-001 19.6 40.0 54.9 N,D mg/L 88 MCAWW 300.0A 10/27/06 Dilution Factor: 10

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6J060270

Work Order #...: JFWMP-SMP

JFWMP-DUP

Matrix....: WATER

Date Sampled...: 10/05/06

Date Received..: 10/06/06

PARAM RESULT Chloride 2.1 C,N	DUPLICATE RESULT 1.9 CN	UNITS RPD mg/L 10 Dilution Factor: 1	RPD LIMIT (0-20)	METHOD SD Lot-Sample #: MCAWW 300.0A	PREPARATION- ANALYSIS DATE F6J060280-002 10/06/06	PREP <u>BATCH #</u> 6282167
Fluoride 0.56	0.56	mg/L 0.13	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J060280-002 10/06/06	6282168
Sulfate 12.5 N	12.5 N	mg/L 0.36	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J060280-002 10/06/06	6282169
Nitrite ND NJW	ND /	mg/L 0 Dilution Factor: 1	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J060280-002 10/06/06	6282170
Nitrate 0.50 N	0.51 N	mg/L 2.6 Dilution Factor: 1	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J060280-002 10/06/06	6282171

NOTE(S):

CN Result in method blank above MDL/RL; associated MS/MSD recovery outside limits.

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6J060270

Work Order #...: JGN29-SMP

Matrix....: WATER

Date Sampled...: 10/16/06

JGN29-DUP Date Received..: 10/18/06

PARAM RESULT Chloride 0.95 C	DUPLICATE RESULT 1.2 C	UNITS RPD mg/L 23 Dilution Factor: 1	RPD LIMIT (0-20)	METHOD SD Lot-Sample #: MCAWW 300.0A	PREPARATION- ANALYSIS DATE F6J180204-003 10/20/06	PREP BATCH # 6296386
Fluoride 0.061 B,N	0.066 B,N	mg/L 8.7 Dilution Factor: 1	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J180204-003 10/20/06	6296387
Sulfate 9.3 N	9.4 N	mg/L 0.50	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J180204-003 10/20/06	6296388
Nitrite ND	ND	mg/L 0 Dilution Factor: 1	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J180204-003 10/20/06	6296389
Nitrate 0.10	0.11	mg/L 2.4 Dilution Factor: 1	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J180204-003 10/20/06	6296390

NOTE(S):

C $\;\;$ The analyte was detected in the associated method blank above the IDL/MDL

C Analyte detected in method blank above the MDL/IDL.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6J060270

Work Order #...: JHA55-SMP

JHA55-DUP

Matrix..... WATER

Date Sampled...: 10/24/06

Date Received..: 10/26/06

PARAM RESULT	DUPLICATE RESULT	UNITS RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride 3.0	3.0	mg/L 0.3		SD Lot-Sample #: MCAWW 300.0A		6300288
Fluoride 0.14	0.13	mg/L 9.8		SD Lot-Sample #: MCAWW 300.0A	F6J260237-001 10/26/06	6300289
Sulfate 19.6 DN	19.7 DN	mg/L 0.8		SD Lot-Sample #: MCAWW 300.0A	F6J260237-001 10/27/06	6300290
Nitrite ND /	ND //	mg/L 0 Dilution Factor:	(0-20)	SD Lot-Sample #: MCAWW 300.0A	F6J260237-001 10/26/06	6300291
Nitrate 0.82 N	0.82 N	mg/L 0.1	,	SD Lot-Sample #: MCAWW 300.0A		6300292

NOTE(S):

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

PNNL	S16+	CONTRACTOR CONTRACTOR		1	CHAIN OF	CUSTODY/S	SAMPLE ANALY	SIS REQUEST		X07-001-4 age <u>1</u> of <u>1</u>			
Collector			***************************************		Contact/R Dot Stev			Telephone No.	FAX				
SAF No.					Sampling	Origin	**************************************	509-376-5056 Purchase Order	Purchase Order/Charge Code				
X07-001 Project Title					Hanford	Site		Ice Chest No.	Temr).			
SESP SEEPS OC Shinned To (Lah)	TOBER 2006			***************************************	Mathadad	Shipment			Bill of Lading/Air Bill No.				
Severn Trent St	Louis				Govt. V				1991 19	799025239501			
Protocol SESP						Prio	No.						
POSSIBLE SAMP ** **	LE HAZARI	S/RE	MARKS				SPECIAL INSTRUCTIONS Batch all samples submitted under t Stewart, PNNL.	Hold Time his SAF into one SDG, not to exc	Total Activity Exected SDG closure of 14 days.	emption: Yes V No L Submit deliverables to DL			
Sample No.	Lab ID	*	Date	Time	No/Type Container		Sample An	nalysis	West to the second seco	Preservative			
B1KKR8		W	10/24/06	14:10	4x40-mL aGs*	8260_VOA_GCMS			HCI or H2SO4 to pH <				
B1KKR8		W	10/24/06	14:10	1x500-mL P	300.0_ANIONS_IO	C: List-1 (5)		Cool 4C				
B1KKR8		W	10/24/06	14:10	1x20-mL P	Activity Scan			None				
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Relinquished By	Print		Sign		Date/Time	Received By	Print Sign	Date/Time	1	Matrix *			
Relinquished By Relinquished By Relinquished By	Who will be	Æ,	(d. \$\foralle{\pi}	illo 1	Date/Time Date/Time Date/Time	Received By Received By Received By	X 10/25/06	Date/Time	S = Soil SE = Sedimer SO = Solid SI. = Sludge W = Water O = Oil A = Air	DS = Drum Solid DI = Drum Liani T = Tissue WI = Wine I = Lianid V = Vesetation X = Other			
Relinquished By			(0°2(606	69/5 Date/Time	Received By		Date/Time	3				
FINAL SAMPLE Disposal Method (e.g., Return to customer, per lab procedure, used in DISPOSITION						cess)	Disposed By		D	Pate/Time			

PNNL	S1641			,	CHAIN OF	CUSTODY/	SAMPLE A	ANALYSIS R	EQUEST	i		X07-0		
Collector V	aziHo,	1 5	alter	,)		Requester			Telephone No. 509-376-5056	MSIN	FAX		<u> </u>	
	<u> </u>		alter		Dot St									
SAF No. X07-001	,				Sampling Hanfo				Purchase Order	/Charge Code				
Project Title					Hamo	id Site			Ice Chest No.		Temp.			
SESP SEEPS OC	CTOBER 2006									10.16.				
Shinned To (Lah)		assemble transferration	entrales es constructos de la construction de la co	CONTRACTOR AND		of Shipment			Bill of Lading/Air Bill No. 2573950/					
Severn Trent St	Louis	NONEMARKA SANTANION			Govt.	Vehicle			1770 23	13750	7/			
Protocol SESP						Pri	ority: 45 Days		Offsite Property	No.				
POSSIBLE SAMP ** **	PLE HAZARD	S/REI	MARKS				SPECIAL INSTR Batch all samples su Stewart, PNNL.	UCTIONS Hold bmitted under this SAF into	Time one SDG, not to exc	I OWI I LOUT	tv Exemption: days. Submit de	Yes Ves eliverables t	No Lo DL	
Sample No.	Lab ID	*	Date	Time	No/Type Containe	er		Sample Analysis			Pro	eservative		
B1KKR9		W	10/24/08	1300	1x500-mL P	300.0_ANIONS_	C: List-1 (5)			Cool 4C			I	
B1KKR9	- 	W	10/24/00		1x20-mL P	Activity Scan				None				
Relinquished By	Print Guith		Sign		Date/Time /0-24-0}	Received By LOCKED	Print STONAGE	Sign	Date/Time	c	Matri		Danson Coli	
Relinquished By Relinquished By	fulfol		2. W. F	-06	Date/Time 10/25/66 3 0 Date/Time	Received By Received By B-1	Ed Ex	10/25/06	Date/Time 3/30 Date/Time 09/5	SO = S SI = S W = V O = C	ediment olid ludge Vater Dil	DI, = T = WI = I. = V =	Drum Soli Drum Lian Tissue Wine Lianid Vegetation Other	
Relinquished By	*				Date/Time	Received By	WW.	Disposed By	Date/Time		Date/Time			

FINAL SAMPLE DISPOSITION

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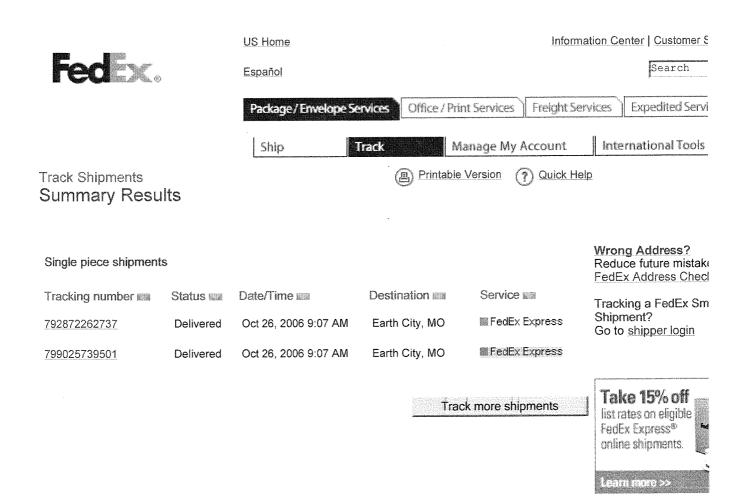
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	220	ii u											Page	<u>1</u> of	1	
Collector FeV/	тд		····		Co	ontact/Re				Т	elephone No. 509-376-5056	N	ISIN F.	AX	<u></u>	
SAF No.						ampling O	rigin			P	Purchase Order/Charge Code					
X07-001 Project Title						Hanford S	Site			1.6	e Chest No.	9	Temp.			
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Protocol	10008	Winer/obtavosomo			***************************************	GOVI. VE		iority: 45 Day	\$	o	ffsite Property	No.	023 67	30/_		
SESP POSSIBLE SAMP ** **	PLE HAZARI	OS/RE	MARKS					SPECIAL IN	ISTRUCTIONS ples submitted under	Hold T this SAF into on			Activity Exempt re of 14 days. Subn			
Sample No.	Lab ID	*	Date	Time	No/Type Co	ontainer			Sample A	nalysis			-	Preservati	ve	
B1KKT1		W	10-23-06	1348	4x40-mL a	aGs*	8260_VOA_GC	MS: List-2 (26)				HCI or H2S	O4 to pH <2 Co	ol 4C		
B1KKT1		W		1348	1x500-mL	Р	300.0_ANIONS_	IC: List-1 (5)	······································			Cool 4C				
B1KKT1		W		1345	1x20-mL F	5	Activity Scan					None		······		
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Relinquished By						ne 0915	Received By			1 1	Date/Time	Ö	= Oil = Air	V :	= Vegetation = Other	
Q.	elex_			10-0			3-0=		E of	126/06	0915					
Relinquished By					Date/Tin	ne	Received By				Date/Time					
FINAL SAMPL DISPOSITION		Method	l (e.g., Return to	customer, per	lab procedure, u	used in proce	l ess)		Disposed By				Date/T	ime		

PNNL	521	641	1		(CHAI	N OF	CUSTO	DY/S	SAMPI	LE AN	ALYSI	IS RE	QUEST		C.O.6	X	07-001-17
Collector	<u></u>	11	1		/	I	Contact/Re	auester	wwwv	www.	w		Tel	ephone No.		MSIN	Page FAX	<u>1</u> of <u>1</u>
	J-ERCi	740/	1-4	elten			Dot Stew	art			W		5	09-376-5056			r _{Au}	`
SAF No. X07-001						18	Sampling (Hanford							chase Order	ase Order/Charge Code			
Project Title SESP SEE	PS OCTOBI	ER 2006										Ice	Chest No.	WOE	Tei	mp.		
Shinned To ((Lah) ent St. Louis	Named Association	on combonists seem production.			T management of the state of th	Method of						Bill of Lading/Air Bill No.					
Protocol	PIII SE LOHIS					***************************************	Govt. Ve	hicle		45 D-		***************************************	Off	site Property				
SESP POSSIBLE S	SAMPLE H	AZARD	S/REM	MARKS					Pilo	rity: 45 Da SPECIAL I Batch all sar Stewart, PN	NSTRUCT	FIONS ed under this Sa	Hold Tin AF into one	ne SDG, not to exc	To ceed SDG cl	otal Activity E osure of 14 day	Exemptions. Submit of	i: Yes V No Leliverables to DL
Sample 1	No. L:	ab ID	*	Date	Time	No/Type (Container				Sa	mple Analysi	is				P	reservative
B1KKV0			w	IORYIA	613130	4x40-mL	aGs*	8260_VO	A_GCMS	: List-2 (26				,	HCl or H	2SO4 to pH		
B1KKV0			w	intrilla	13:36	1x500-mL	_ P	300.0_AN	IIONS_IC	: List-1 (5)	· ·				Cool 4C	•		
B1KKV0			w	10/24/0	613,30	**********	Р	Activity So	can		· · · · · · · · · · · · · · · · · · ·				None			
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Relinquished Relinquished Relinquished	D.Fa	1 toa	<u> </u>	8 ?.W.Z 26-	Tell.	0 - 24-06 Date/T 10/25/D Date/T	53:00 ime	Received By Received By B—4	ed o	(<u>6</u> 0 51	10/	10/2		Date/Time 30 Date/Time 09/5		S = Soil SE = Sedir SO = Solid SI = Sluds W = Wate O = Oil A = Air	re	DS = Drum Solid DL = Drum Liani T = Tissue WI = Wine L = Lianid V = Vecetation X = Other
Relinquished	Ву					Date/T	ime	Received By						Date/Time				
FINAL SA DISPOSI		Disposal N	fethod (e.g., Return to	customer, per	ab procedure,	used in proc	ess)	,		Dispo	sed By					Date/Time	}

Page 1 of 1



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Client: Quote No:	PNNL		COC/RFA No: Initiated By:	Sec b	dition Upon Rec	Date 10/26/06 Time: 09/35
2. <u>7990</u> 3 4 5.	(s):* 122U 2573		6. 7. 8. 9. 10. ambered Sample Temp lin		**Sample must be re-	Multiple Packages Sample Temperature (s):** 1. 3 6. 2. 3 7. 3. 8. 4. 9. 5. 10. ceived at 4°C ± 2°C- If not, note contents below. Temperature ffect the following: Metals-Liquid or Rad tests- Liquid or Solids
			o and "N/A" for not appl		\mathcal{O}	
1. Y N			received broken?	8.	Y/N	Sample received with Chain of Custody?
			received with prope		(1) x	Chain of Custody matches sample ID's on
2. Y N	N/A		, make note below) pH taken by origina	9.	N N	container(s)?
3. Y N		STL Lab?	pri taken by origina	1 10). (A) N	Are there custody seals present on cooler?
3. I IV			ived in proper		1/10	Do custody seals on cooler appear to be tampered
4. (y N	-	containers?	ived in proper	1.	L YN NA	with?
6			me sufficient for	-		
5. Y N	•	analysis?		12	2. / Y) N	Are there custody seals present on bottles?
Ux	1		n VOA or TOX liqu		00	Do custody seals on bottles appear to be tampered
6. Y N	/ _{N/A}	samples? (If	Yes, note sample ID's b	elow) 13	3. Y N N/A	with?
7		Were conten	its of the cooler			
7. Y N	•	frisked after	opening	14	4. Y N (NH	Was Internal COC/Workshare received?
1 For DOE-AL	(Pantex. L	ANI. Sandia) site	s pH of ALL containers	received m	ust be verified, EXCE	PT VOA, TOX and soils.
	And the second of the second o	01-4,6,1	THE REAL PROPERTY AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PER			
•	wol-0	09-179,19	17,227,233,2	239,26		Ser 10.26.06
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Corrective	Action:	****	•			
	Action: Contact	Name:		•	Informed by	V'
	and the second second	essed "as is"			illoillion o	J ·
	e(s) proc				If released, notify	v'.
Project Mar	nagemen	Review		, and the contract of the cont	Date	e: 10-26-01,
THIS FORM I	MUST BE	COMPLETED A	T THE TIME THE ITEM	IS ARE BEI	NG CHECKED IN.	IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN
THE INITIAT	OR, THEN	THAT PERSON	IS REQUIRED TO API	PI V THEIR	INITIAL AND THE	DATE NEXT TO THAT ITEM. 01/06\\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004030106.doc

- 4637 -

PNNL	641				CHAIN O	F CUSTODY/S	SAMPLE A	NALYSIS	REQUEST	C.O.G	X07-001-2 Page 1 of 1		
Collector Fevi	c, TTd		l			ct/Requester			Telephone No.	MSIN	FAX		
SAF No.	7770					Stewart ing Origin	***************************************		509-376-5056 Purchase Order/	Chargo Codo			
X07-001				·····		ford Site			1				
Project Title SESP SEEPS OC	TOBER 2006	5							Ice Chest No.	DØ5 Te	mp.		
Shinned To (Lah)						d of Shipment			Bill of Lading/Ai	78222425	2756		
Severn Trent St. Protocol	LOHIS			ncional antiqui esta factora esta principa de la comp	Govt	t. Vehicle	-:4 AF Davis	***************************************	Offsite Property	No.			
SESP POSSIBLE SAMP ** **	LE HAZARI	DS/RE	MARKS	Palling Colored Colore	I	-110	rity: 45 Days SPECIAL INSTRU Batch all samples sub Stewart, PNNL.		l Did Time nto one SDG, not to exce	Total Activity I ged SDG closure of 14 day	Exemption: Yes No s. Submit deliverables to DL		
Sample No.	Lab ID	*	Date	Time	No/Type Contain	ner		Sample Analysis			Preservative		
B1KKR2		w	10-16-06	0945	4x40-mL aGs*		5: List-2 (26)			HCl or H2SO4 to pH			
B1KKR2		W	10-16-06	0945	1x500-mL P	300.0_ANIONS_IC			Cool 4C				
B1KKR2		W	10-16-16	0945	1x20-mL P	Activity Scan				None			
			2					. //////					
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Relinquished By	Print		Sign		Date/Time	Received By	Print	Sign	Date/Time		Matrix *		
	uto		×.p.,	1	0-16-04 154	45 LOCKE		e.	10-16-06 5		DS = Drum Solid		
Relinquished By					Date/Time	Received By		+-0	Date/Time	SE = Sedii SO = Solid	T = Tissue		
SIG 5 LOC Relinquished By	KED STO	PAC	d too of too	10		COCH. W. FULTON	(<= \(- \(\) e \(\)	Broom	(0)(1)06 H	V = V = V ate	er I. = Liquid		
Remquished By R.W. FULT(IN 13.	(c)). B191	DE 10	Date/Time	Received By	Ex	10/1	2/06 3/3		V = Vegetation X = Other		
Relinquished By	Z.		10-18-	06 0	Date/Time () () () () () () () () () () () () ()	Received By	Placke	10.18	Date/Time	T)			
FINAL SAMPL DISPOSITION		Method	(e.g., Return to	customer, per	lab procedure, used in	n process)	D	isposed By			Date/Time		

PNNL	lo(b)			(CHAIN OF	CUSTODY/S	SAMPLE	ANALYS	S REQUEST	C.O.C	X07-001-21		
	W 71	j .									Page <u>1</u> of <u>1</u>		
Collector	erri4		Fulte	رماد	Contact/Re				Telephone No. 509-376-5056	MSIN	FAX		
SAF No.		1			Sampling ()rigin			Purchase Order				
X07-001 Project Title					Hanford	Site			Ice Chest No.	1 Doc Te	mp.		
SESP SEEPS OC Shinned To (Lab)					Method of	Shipment			Bill of Lading/A	ir Bill No. — 7 tm —			
Severn Trent St Protocol	Louis	and the second second			Govt. Ve	hicle			Bill of Lading/Air Bill No. 24253756 Offsite Property No.				
SESP	Y TO TIL TABLE	NC (D) T	D. C. A. D. Y. C.			Filotity. 45 Days							
POSSIBLE SAMP ** **	LE HAZARI	15/KE	WARKS						Hold Time AF into one SDG, not to exc	Total Activity Exemption: Yes V No ceed SDG closure of 14 days. Submit deliverables to DL			
Sample No.	Lab ID	*	Date	Time	No/Type Container			is		Preservative			
B1KKV2		W	10/16/06	12:30	1x500-mL P	300.0_ANIONS_IO	D: List-1 (5)			Cool 4C			
B1KKV2		W	10/16/16	12:30	1x20-mL P	Activity Scan				None			
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Relinquished By	Print		Sign		Date/Time	Received By	Print	Sign	Date/Time		Matrix *		
Fell	Tto / (U	11/10		10-16-06 1541	LOCKED	Stonage		10-1606	S = Soil	DS = Drum Solid		
Relinquished By SIG 5 LOC	ven etr	NO A	(25	18/1-	Date/Time	Received By	٠, ١	# Truck	Date/Time	SE = Sedir SO = Solid	T = Tissue		
l		2.6 99. 6.		(0/1 0	06 11:00	R.W. FULIGN	12.0		10/17/2011	w - wate	r I. = Liouid		
Relinquished By	AN (2	ح ح	U. #	De 10	Date/Time	Received By	EX 1	10/12/06	Date/Time	O = Oil A = Air	V = Vegetation X = Other		
Relinquished By	EX	1	10.18-	06	Date/Time 0901)	Received By	lack	- 10-18	Date/Time	900			
FINAL SAMPL DISPOSITION		Method	(e.g., Return to	customer, per l	lab procedure, used in proc	ess)		Disposed By			Date/Time		

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#

X07-001-7

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	471											Page	<u>1</u> of <u>1</u>	
Collector	1					Contact/Re				Telephone No. 509-376-5056	MS	IN FA	X	\Box
terrio	TU					Dot Stew				Purchase Order				
AF No. X07-001						Sampling O Hanford S				Too Chort No.	d-	Temp.		\dashv
roject Title	TODED 2006									Ice Chest No.	-D95_			_
SESP SEEPS OC hinned To (Lab)	TOBER 2000	CONTRACTOR OF THE STATE OF THE		*****************		Method of S				Bill of Lading/A	Bill of Lading/Air Bill No.			
Severn Trent St	Louis	NAVY TETET PROTECTION OF				Govt. Vel		-it- 45 Days			Offsite Property No.			
rotocol SESP							РПС	rity: 45 Days SPECIAL INSTR	UCTIONS	Hold Time	Total Ac	tivity Exemption	on: Yes 🗹 No	
POSSIBLE SAMP	LE HAZARU	S/RE	MARKS					Batch all samples su Stewart, PNNL.	bmitted under this	SAF into one SDG, not to ex	ceed SDG closure o	f 14 days. Submit	deliverables to DL	
Sample No.	Lab ID	*	Date	Time	No/Type	Container			Sample Analy	rsis			Preservative	
B1KKT0	Later	W		13/5	1x500-m		300.0_ANIONS_IC: List-1 (5)				Cool 4C		****	
B1KKT0	1		10-16-00	1315	1x20-ml		Activity Scan				None		· · · · · · · · · · · · · · · · · · ·	
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Relinquished By	Prir		Sign			/Time	1		10-11	06 1545	1	= Soil	DS = Dru	ım Solid
J. Ferr	(LLD)	D.	MA		10-16	⊘ V e/Time	Loc (C E) Received By	Ü		Date/Tim	CT	= Sediment = Solid	DI. = Dru T = Tiss	ım Liani
Relinquished By	Marin or	_		10/1	gen .		R.W. FULTON	ررد ا	J. Fel	L 10/17/0	West	= Sludge = Water	WI = Wir	ne
SIG 5 LOC	NED 210	MA	GE .	10/17		7 0 0 e/Time	Received By	1.176		Date/Tim		= Oil		getation
Relinquished By R.W. FULT	91 NO	40	Oc #50	OS A	7	531 cl		BX 101	(106	3130	^ ^	= Air	A = 000	
Relinquished By	1 -	1,00		10 ~	Date	e/Time 0900	Received By	Ala.	1. 1	Date/Tim 0-18-06	· 1910)			
rea	EX	\mathcal{O}_{\perp}	10.	10-01			J Jel	cen	Disposed By		0 000	Date/7	(ime	
FINAL SAMP DISPOSITIO		l Metho	od (e.g., Return	to customer, po	er ian procedi	ne, used in pro	iccasj		-1 2					

LANGE STL S	t. Louis	Lot #(s)	:	FUJ18020
		- 4629 -		7
)
0.11	() () () () () () () () () () () () () (Condition Upon Recei	pt Form	10.15 110
Client: PNN Quote No:	COC/RFA No: X/5/ Initiated By:	-001-2,21, 1	pt Form Date Time:	0900
	Shir	pping Information		
Shipper Name:	ed + X	•	Multiple Packages Sample Temperature	Y N N/A
Shipping # (s):* 1. 1922 2	425 3756 6 7 8		Sample Temperature 1.	6.
2.	7.		2. 3.	7. 8.
4.	9.		4.	9.
5.	10. s correspond to Numbered Sample Temp lines	**Sample must be rece	ived at 4° C \pm 2° C- If not, note con	1U ntents below. Temperature
	for yes, "N" for no and "N/A" for not applicable):		ect the following: Metals-Liquid	or Rad tests- Liquid or Solids
1. Y(N)	Was sample received broken?	8. (Y) N	Sample received with Ch	ain of Custody?
2. (Y) N N/A	Was sample received with proper pH ¹ ? (If not, make note below)	9. Y N	Chain of Custody matche container(s)?	es sample ID's on
	If N/A-Was pH taken by original		Are there custody seals p	recent on cooler?
3. Y N	STL Lab? Sample received in proper		Do custody seals on cool	
4. (Y)N	containers? Sample volume sufficient for	11. YN N/A	with?	and the second s
5. (Y) N	analysis?	12. (Y) N	Are there custody seals p	
6. Y/N)N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13. Y N N/A	Do custody seals on bott with?	les appear to be tampered
	Were contents of the cooler	14. Y N	Was Internal COC/Work	share received?
7. (Y) N 1 For DOF-AL (Pantex, L)	frisked after opening ANL, Sandia) sites, pH of ALL containers receiv	<u> </u>		in the state of th
Notes:	, <u> </u>			
	· · · · · · · · · · · · · · · · · · ·			The state of the s
1				
Corrective Action: Client Contact	Name:	Informed by	•	
☐ Sample(s) proc	cessed "as is"			
☐ Sample(s) on h Project Managemen	old until:	If released, notify Date		7
	COMPLETED AT THE TIME THE PREMS ARI	E BEING CHECKED IN. I	F ANY ITEM IS COMPLETED I	BY SOMEONE OTHER THAN

THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 03/01/06\\Sisvr01\QA\\FORMS\ST-LOUIS\ADMIN\Admin004030106.doc

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C.O.C.# V07 001 20

C	1 / UV	10	<u> </u>		CHAIN	OF (CUSTODY/	SAMPLE A	ANALYSIS R	ŒQUEST	` l	AU	77-001-29	
	L 64%	265										Page <u>1</u>	of <u>1</u>	
Collector Ferr	-60				Со	ntact/Re Dot Stew	auester			Telephone No. 509-376-5056	MSIN	FAX		
SAF No.			······································		Sai	mpling O	rigin			Purchase Order/				
X07-001 Project Title						Hanford S	Site			Ice Chest No. [] 7 Temp.				
SESP SEEPS OC Shinned To (Lab)	CTOBER 2006						71.4			603				
Severn Trent St	Louis					Method of Shipment Govt. Vehicle				Bill of Lading/Air Bill No. 7905 7874 5220				
Protocol SESP							Priority: 45 Days Offsite Property No.							
POSSIBLE SAMP ** **	LE HAZARI	S/RE	MARKS					SPECIAL INSTE Batch all samples so Stewart, PNNL.	RUCTIONS Hold abmitted under this SAF into	Time one SDG, not to exce		ivity Exemption: 14 days. Submit del		
Sample No.	Lab ID	*	Date	Time	No/Type Co	ontainer			Sample Analysis			Pres	servative	
B1KKW1		W	10-5-06	1215	4x40-mL a	Gs*	s* 8260_VOA_GCMS: List-2 (26)				HCl or H2SO4 t	to pH <2 Cool 4	С	
B1KKW1		W	10-2.01	1215	1x500-mL I	Р	300.0_ANIONS_IC: List-1 (5)				Cool 4C			
B1KKW1		W			1x20-mL P)	Activity Scan				None			
Relinquished By	Print VVITO CLEX		Sign 10.6.0	060	Date/Time Date/Time Date/Time Date/Time	ae	Received By	Print	Sign 10-506 10-6-04	Date/Time	SO = SI. = W = O =	Matrix Soil Sediment Solid Sludge Water Oil Air	DS = Drum Solid DL = Drum Liaui T = Tissue WI = Wine L = Liauid V = Vesetation X = Other	
FINAL SAMPL		Method	l (e.g., Return to	customer, per	lab procedure, us	sed in proce	ess)	<u> </u>	Disposed By			Date/Time	and the	

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T 1474T	5L6401

DISPOSITION

C.O.C. #

X07-001-33

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												Page	<u>1</u> of <u>1</u>	
Collector	Ferritto			W		itact/Rec				Telephone No. 509-376-5056	MSIN	FA	XX	
SAF No. X07-001					Sam	npling O Hanford S	rigin		:	Purchase Order/	Charge Code			
Project Title	PS OCTOBER 2006			***********		iamoru s	one			Ice Chest No.	E03	Temp.		
Sh <u>inned To (</u>	Tab)	Mental Republicano					Shipment					(707	4 52363	
Severn Tre Protocol	ent St. Louis	eta escar estadorar estado.			G	lovt. Veh		rity: 45 Days		Bill of Lading/Air Bill No. 7905 7874 5220 Offsite Property No.				
SESP POSSIBLE SAMPLE HAZARDS/REMARKS *** **							SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverable Stewart, PNNL.						on: Yes V No L t deliverables to DL	
Sample 1	No. Lab ID	*	Date	Time	No/Type Con	ntainer			Sample Analysis				Preservative	
B1KKW6		W	16-5-06	1306	4x40-mL aG		8260_VOA_GCMS				HCl or H2SO4 to pH <2 Cool 4C			
B1KKW6		W	10-564	1300	1x500-mL P)	300.0_ANIONS_IC: List-1 (5)				Cool 4C			
B1KKW6		W	10576	1300	1x20-mL P		Activity Scan N			None				
Relinquished I	By Print		Sign	<i>K</i>	Date/Time		Received By	Print Ex.1	Sign	Date/Time	S =		ntrix * DS = Drum Solid	
Relinquished I	Fed Ex		10.6		Date/Time Date/Time Date/Time		Receiver Rv.	lack	10.6.06	Date/Time Date/Time	SO = SL =	Sediment Solid Sludge Water Dil	DI. = Drum Liqui T = Tissne WI = Wine I. = Liquid V = Vegetation X = Other	
											and the second second second			
CINAT CA	MPIF Disposal N	Method	lee Return to	customer ner	lab procedure used	d in proces	(22		Disposed By			Date/Tir	me	

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		•									Page <u>1</u>	of 1		
Collector	m O				Contact/I Dot Ste	Requester			Telephone No. 509-376-5056	MSIN	FAX			
SAF No. X07-001					Sampling Hanfor	Origin Origin			Purchase Order/	Charge Code		1		
Project Title SESP SEEPS O	CTOBER 2006								Ice Chest No.	7D?	Гетр.			
Shinned To (Lah) Severn Trent St			Application of the property of the section of the s		Method o	of Shipment		***************************************	Bill of Lading/Air Bill No. 7905 7874 5220					
Protocol SESP	ano and another in the second and and another in the second and another in the second and another in the second	***************************************		Industrial Property Section (1997)	GOVI	Priority: 45 Days Offsite Proper								
POSSIBLE SAMPLE HAZARDS/REMARKS ** **					1			Total Activity Exemption: Yes V No closure of 14 days. Submit deliverables to DL						
Sample No.	Lab ID	*	Date	Time	No/Type Container	г		Sample Analysis			Pres	ervative		
B1KKV8		W	10-4-06	1300	1x500-mL P					Cool 4C				
B1KKV8		W	10-4-06	/300	1x20-mL P	Activity Scan				None	WWW.		:	
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Relinquished By	Print		Sign		Date/Time	Received By	Print	Sign	Date/Time		Matrix	*		
J. Ferr	(170 /J.	en	H		10.4-06	LOCICES	Storme	10-4-00	Kede	s = s	oil	DS = I	Drum Solid	
Relinquished By	Story	8	Feuli	1/-	Date/Time	Received By	Ex		Date/Time	SO = S SL = S	olid ludge	T = 7 WI = V	Orum Liaui Fissue Wine	
Relinquished By	d Ex		10.6.0		Date/Time 09/5	Recoived By	Placke	10.6.0	Date/Time	$\begin{array}{ccc} & W &= W \\ O &= O \\ A &= A \end{array}$	ril	V = V	ionid Vegetation Other	
Relinquished By				***************************************	Date/Time	Received By			Date/Time	4,				
FINAL SAMPI DISPOSITION		Method	l (e.g., Return to	customer, per	lab procedure, used in pr	rocess)	was wat to	Disposed By			Date/Time	<u>,, ,,</u>		

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5	1640	•	T. B. C.								Page	<u>1</u> of	1	
Collector Ferv	ारा०	-	**************************************		Contact/Ro Dot Stev				Telephone No. 509-376-5056	MSI	N FA	X		
SAF No.				******	Sampling	Origin			Purchase Order/	Charge Code				
X07-001 Project Title					Hanford	Site			Ice Chest No.	ED3	Temp.			
SESP SEEPS OC		NOTE WAS ARRESTED	***************************************	MANUFACTURE VICTOR SHOWS AND ADDRESS AND A	Method of	Shipment			Bill of Lading/Air Bill No. 7905 7874 5220					
Severn Trent St. Protocol	Louis				Govt. V	Govt. Vehicle				Offsite Property No.				
SESP						Pric	ority: 45 Days		<u> </u>					
POSSIBLE SAMP ** **	LE HAZARI)S/RE	MARKS				SPECIAL INSTRU Batch all samples sub Stewart, PNNL.	CTIONS Hol mitted under this SAF int	d Time to one SDG, not to exce		ctivity Exemption of 14 days. Submit			
Sample No.	Lab ID	*	Date	Time	No/Type Container			Sample Analysis			P	reservative		
B1KKV9		W	10-4-06	1350	1x500-mL P					Cool 4C				
B1KKV9		W	10-4-60	1350	1x20-mL P	Activity Scan				None			***************************************	
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Relinquished By	Print		Sign		Date/Time	Received By	Print	Sign	Date/Time		Mat	trix *		
		78	C. As					-	0-4-06 N	777			<i>z</i>	
Relinquished By	EVV 1700	1			i v - V · O v Date/Time	Received By	TO STONEZE		Date/Time	SE SO	= Soil = Sediment = Solid = Sludge	DI. = T =	Drum Solid Drum Liqui Tissue Wipe	
Relinquished By	>10nn-	12	M/B		10-506 Date/Time	Received By-	10 /	1015	Date-Time	w o	= Sinage = Water = Oil = Air	I'. = V =	Liquid Vegetation Other	
<i></i>	ed E	<u> </u>	10.60	·66	1915		lacke	10-6-00			/ 111	,		
Relinquished By					Date/Time	Received By			Date/Time					
FINAL SAMPL DISPOSITION		Metho	d (e.g., Return to	customer, per	lab procedure, used in pro	cess)	D	isposed By			Date/Tin	me		

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Collector	errino				Contact/R Dot Stev			***************************************	Telephone No.	MSIN	FAX		
SAF No.				***************************************	Sampling	Origin			509-376-5056 Purchase Order/				-
X07-001 Project Title					Hanford	Site	***		Ice Chest No.	305	Temp.		
SESP SEEPS OC	TOBER 2006					****			1	<i>303</i>			
Shinned To (Lah) Severn Trent St	Louic	ECHOMINIPOSINIS		CONTRACTOR OF THE PROPERTY OF	Method of Govt. V				Bill of Lading/Ai	ir Bill No. 790	25 7874	1 525	5
Protocol SESP							rity: 45 Days		Offsite Property				
POSSIBLE SAMP ** **	LE HAZARI	S/RE	MARKS		•		SPECIAL INSTRU Batch all samples sub Stewart, PNNL.	UCTIONS Hold mitted under this SAF into	Time one SDG, not to exce	Total Actived SDG closure of 1	vity Exemption: 4 days. Submit del	Yes V No liverables to DL	
Sample No.	Lab ID	*	Date	Time	No/Type Container			Sample Analysis			Pres	servative	
B1KKT2		W	10-4-06	1030	1x500-mL P	300.0_ANIONS_IC	C: List-1 (5)	·		Cool 4C			
B1KKT2		W	10-4-06	1030	1x20-mL P	Activity Scan	- 1/1/1/1911			None			
			· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·					
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Relinquished By	Print		C:		D-4-77	Ini.an		A:					
T. Few		THE	_ Sign		Date/Time	Received By	cel Stra	Sign	Date/Time	· -	Matrix		G 1'1
T. Fev Relinquished By	C(Co 1) S	bra	1/40	ulh.	Date/Time	Received By	<u> </u>		Date/Time	SO = SL =	Sediment	DS = Drum DI = Drum T = Tissu WI = Wine I = Liquid	n Liaui ie
Relinquished By	Fed E	-X	10	15	Date/Time 09/5	Received B.	Clark	10.6.	Date/Time	O =	Oil Air	V = Veget X = Other	etation
Relinquished By			Cp!	0.6.06	Date/Time	Received By			Date/Time				
THE PARTY OF THE PARTY OF	n in 11	K - +1 3	/ 10				_						

DISPOSITION

FINAL SAMPLE Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

Date/Time

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11-28-06

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		IP										Page	<u>1</u> of <u>1</u>		
Collector	πο					Contact/Re				Telephone No.	MSI	N FA	AX		
SAF No. X07-001							Origin			509-376-5056 Purchase Order/Charge Code					
Project Title				····		Hanford	Site		***************************************	Ice Chest No.	ED S	Temp.			
SESP SEEPS ()(Shinned To (Lah)	CTOBER 2006	<u> </u>				Method of	Shinment	·							
Severn Trent St	Louis					Govt. Ve						105 7	87452	23	
Protocol SESP							Pr	iority: 45 Days		Offsite Property	No.			-	
POSSIBLE SAMF ** **	LE HAZARI	OS/RE	EMARKS					SPECIAL INSTR Batch all samples su Stewart, PNNL.	UCTIONS Hole bmitted under this SAF into	d Time to one SDG, not to exce	Total Act red SDG closure of	ivity Exempti 14 days. Submi	on: Yes 🗹 1 it deliverables to I)T	
Sample No.	Lab ID	*	Date	Time	No/Type	Container			Sample Analysis				Preservative		
B1KKT8		W	16-4-06	1130	1x500-n	nL P	300.0_ANIONS_	IC: List-1 (5)			Cool 4C				
B1KKT8		W	10-4-06	1130	1x20-ml	_ P	Activity Scan				None				
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i Ferri	Print	- 2 Z	Sign		Date/		Received By	Print	Sign	Date/Time			ıtrix *		
Relinquished By	770 J.J.W.		<u> </u>				Received By	Stendy		Date/Time		Soil Sediment	DS = Dr DL = Dr	um Solid um Liaui	
Cockel Stones & Feel Co-5						1 //	EX		Date/Time	SO =	Solid Sludge	T = Tis WI = Wi	ssue		
Relinquished By	- Carrier	7	LAGINO.				Received By	0,0		Date/Time	w =	Water Oil	$I_{\cdot} = I_{\cdot}ic$		
Fed	Ex	10.	6.06		99/5	- (It !	las	10.6.06	Date/Time	5 A =	Air	X = Oth	her	
Relinquished By				100000	Date/		Received By		-	Date/Time	L				
			···												
FINAL SAMPL DISPOSITION		Method	l (e.g., Return to	customer, per	lab procedur	e, used in proce	ess)	·	Disposed By			Date/Tir	me		

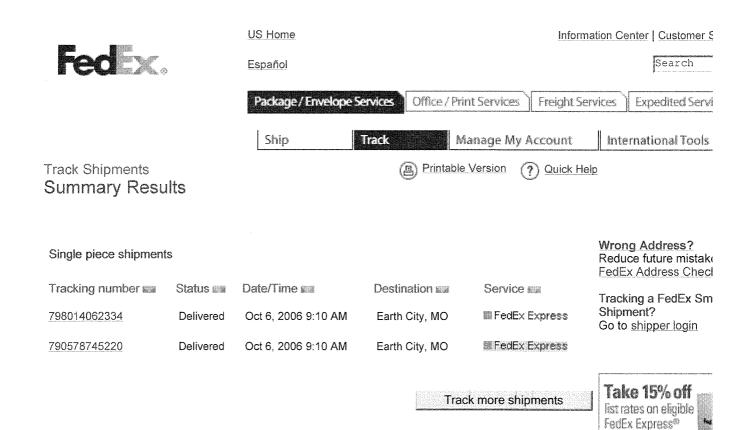
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	7/14	<i>1</i> \			CHAI	A OF, (CUSTODY	/SAMPLE A	INALYSIS	REQUEST		1	XU/-UU1-20		
	5664	ο,										Page	<u>1</u> of <u>1</u>		
Collector Fev	CIPI				(Contact/Re				Telephone No. 509-376-5056	MSI	N FA	X		
SAF No. X07-001					5	Sampling C Hanford	Origin Purchase Order/Char					·ze Code			
Project Title SESP SEEPS OC	TORER 2006	:				1.MILLONIA	<u> </u>			Ice Chest No.	ED3	Temp.			
Shinned To (Lah)						Method of				Bill of Lading/Ai	r Bill No. 7	FOS 78	745220		
Severn Trent St. Louis Protocol						Govt, Ve		iority: 45 Days		Offsite Property	No.		/ / / ()		
SESP POSSIBLE SAMP ** **	LE HAZARI	OS/RE	MARKS	11/84/1949	I.	to the terminal		SPECIAL INSTR Batch all samples su Stewart, PNNL.		old Time nto one SDG, not to exce	Total Acced SDG closure o	tivity Exemptic f 14 days. Submi	on: Yes V No L t deliverables to DL		
Sample No.	Lab ID	*	Date	Time	No/Type (Container			Sample Analysis				Preservative		
B1KKW0		W	10-4-00	1430	1x500-mL		300.0_ANIONS_	IC: List-1 (5)	***************************************		Cool 4C				
B1KKW0		W	10-4-06	1430	1x20-mL	Р	Activity Scan				None				
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Relinquished By	Print		Sign		Date/T		Received By	Print	Sign	Date/Time			trix *		
Relinquished By	31711 1	50	That is	<u></u>	Date/T	ime	Received By	ED STONE		Date/Time	SO	= Soil = Sediment = Solid = Sludge	DS = Drum Solid DL = Drum Liqui T = Tissue WI = Wipe		
Relinquished By	EX.	JU.	10.6.C	06	09/2 09/2		Received By	ex Park	10.6.0	10-5-02 Date/Time 6 09/5	w o	= Water = Oil = Air	I. = Limid V = Vegetation X = Other		
Relinquished By		,,	<u> </u>		Date/I	ime	Received By			Date/Time					
FINAL SAMPL DISPOSITION		Method	l (e.g., Return to	customer, per	r lab procedure.	, used in proc	ess))	Disposed By			Date/Ti	me		

online shipments.

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	ST	L	St.	Louis	
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- 4378 -Condition Upon Receipt Form Client: COC/RFA No: Date Initiated By: Quote No: **Shipping Information** Multiple Packages Shipper Name: Sample Temperature (s):** Shipping # (s):* 3. 5. 10. 5. 10. **Sample must be received at 4° C $\pm 2^{\circ}$ C- If not, note contents below. Temperature *Numbered shipping lines correspond to Numbered Sample Temp lines

			vari	ance does NOT and	ect the following: Metals-Liquid or Rad tests- Liquid or Solids
Con	dition Chale "Y"	for yes, "N" for no and "N/A" for not applicable):		<i></i>	
1.	Y (N)	Was sample received broken?	8.	Y N	Sample received with Chain of Custody?
		Was sample received with proper		0	Chain of Custody matches sample ID's on
2.	Y) N N/A	pH ¹ ? (If not, make note below)	9. ((A) N	container(s)?
		If N/A-Was pH taken by original			
3.	YN	STL Lab?	10.	(Y) N	Are there custody seals present on cooler?
	A	Sample received in proper			Do custody seals on cooler appear to be tampered
4.	(Y) N	containers?	11.	Y(N)N/A	with?
		Sample volume sufficient for			
5.	(Y) N	analysis?	12.	(A) N	Are there custody seals present on bottles?
		Headspace in VOA or TOX liquid			Do custody seals on bottles appear to be tampered
6.	Y (N) N/A	samples? (If Yes, note sample ID's below)	13,	Y(N) N/A	with?
		Were contents of the cooler			
7.	NYN	frisked after opening	14.	YN	Was Internal COC/Workshare received?

Notes:			
COC#S		· ·	
W106-009-271			
- 272			
IOC0-054-142	- 12-		
(07-001-29			
:3 3			
-25			
-11			
-13			
-28			
X07-001-024 02-19-07			
Corrective Action:			
☐ Client Contact Name:	Informed by:		
☐ Sample(s) processed "as is"	And a deal of an annual supplementary as years		
☐ Sample(s) on hold until:	If released, notify:		
Project Management Review: F. Leey	Date:	10/6/86	
THIS FORM MUST BE COMPLETED AT THE TIME THE I	TEMS ARE BEING CHECKED IN, IF	ANY ITÉM IS COMPLETED BY SOMEONE OTHER THA	AN
THE INITIATOR, THEN THAT PERSON IS REQUIRED TO	APPLY THEIR INITIAL AND THE DA	ATE NEXT TO THAT ITEM.	

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.